



Full wwPDB NMR Structure Validation Report ⓘ

May 29, 2024 – 12:31 PM JST

PDB ID : 8J4I
BMRB ID : 36563
Title : Unveiling the Role of Human Prohibitin 2 as a Mitochondrial Calcium Channel in Parkinson's Disease
Authors : Li, Y.Y.; Fang, Y.; Gao, Y.X.; Ding, W.; Yang, J.; Liu, Y.; Shen, B.; Wang, J.F.; Zhou, S.
Deposited on : 2023-04-20

This is a Full wwPDB NMR Structure Validation Report for a publicly released PDB entry.

We welcome your comments at validation@mail.wwpdb.org

A user guide is available at

<https://www.wwpdb.org/validation/2017/NMRValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

The following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

MolProbity : 4.02b-467
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
wwPDB-RCI : v_1n_11_5_13_A (Berjanski et al., 2005)
PANAV : Wang et al. (2010)
wwPDB-ShiftChecker : v1.2
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.36.2

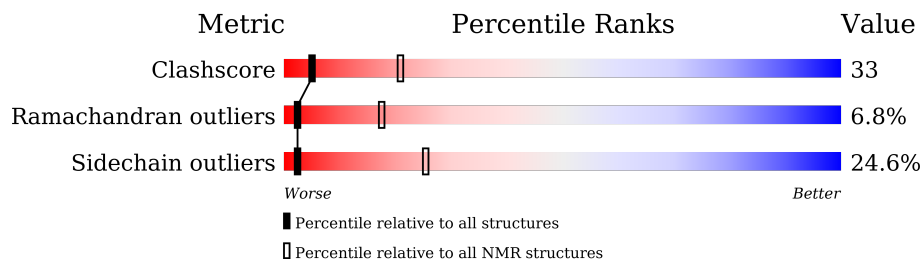
1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

SOLUTION NMR

The overall completeness of chemical shifts assignment is 10%.

Percentile scores (ranging between 0-100) for global validation metrics of the entry are shown in the following graphic. The table shows the number of entries on which the scores are based.



Metric	Whole archive (#Entries)	NMR archive (#Entries)
Clashscore	158937	12864
Ramachandran outliers	154571	11451
Sidechain outliers	154315	11428

The table below summarises the geometric issues observed across the polymeric chains and their fit to the experimental data. The red, orange, yellow and green segments indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria. A cyan segment indicates the fraction of residues that are not part of the well-defined cores, and a grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$

Mol	Chain	Length	Quality of chain
1	A	190	38% 51% 8% ..
1	B	190	38% 49% 12% .
1	C	190	42% 46% 11% .
1	D	190	37% 50% 8% ..
1	E	190	42% 47% 10% .
1	F	190	38% 50% 9% ..

2 Ensemble composition and analysis

This entry contains 15 models. Model 7 is the overall representative, medoid model (most similar to other models). The authors have identified model 1 as representative, based on the following criterion: *closest to the average*.

The following residues are included in the computation of the global validation metrics.

Well-defined (core) protein residues			
Well-defined core	Residue range (total)	Backbone RMSD (Å)	Medoid model
1	A:2-A:58, A:62-A:190, B:1-B:190, C:1-C:190, D:1-D:58, D:66-D:190, E:1-E:190, F:1-F:11, F:15-F:190 (1126)	1.78	7

Ill-defined regions of proteins are excluded from the global statistics.

Ligands and non-protein polymers are included in the analysis.

The models can be grouped into 3 clusters and 3 single-model clusters were found.

Cluster number	Models
1	6, 8, 9, 10, 13, 14
2	1, 5, 7
3	2, 4, 12
Single-model clusters	3; 11; 15

3 Entry composition

There is only 1 type of molecule in this entry. The entry contains 18228 atoms, of which 9282 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called Prohibitin-2.

Mol	Chain	Residues	Atoms						Trace
			Total	C	H	N	O	S	
1	A	190	3038	949	1547	269	269	4	0
1	B	190	3038	949	1547	269	269	4	0
1	C	190	3038	949	1547	269	269	4	0
1	D	190	3038	949	1547	269	269	4	0
1	E	190	3038	949	1547	269	269	4	0
1	F	190	3038	949	1547	269	269	4	0

4 Residue-property plots [i](#)

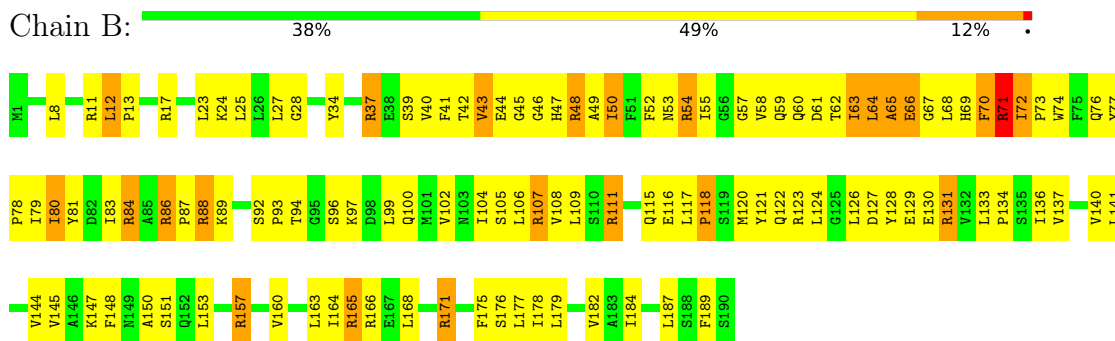
4.1 Average score per residue in the NMR ensemble

These plots are provided for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic is the same as shown in the summary in section 1 of this report. The second graphic shows the sequence where residues are colour-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. Stretches of 2 or more consecutive residues without any outliers are shown as green connectors. Residues which are classified as ill-defined in the NMR ensemble, are shown in cyan with an underline colour-coded according to the previous scheme. Residues which were present in the experimental sample, but not modelled in the final structure are shown in grey.

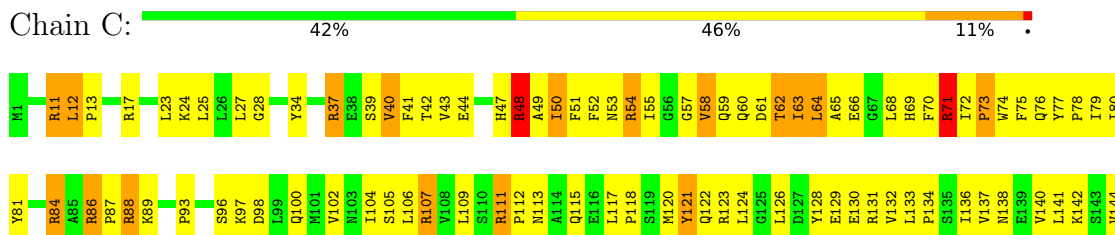
- Molecule 1: Prohibitin-2



- Molecule 1: Prohibitin-2

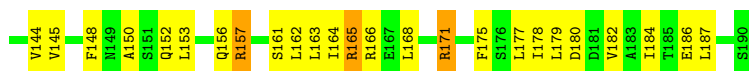
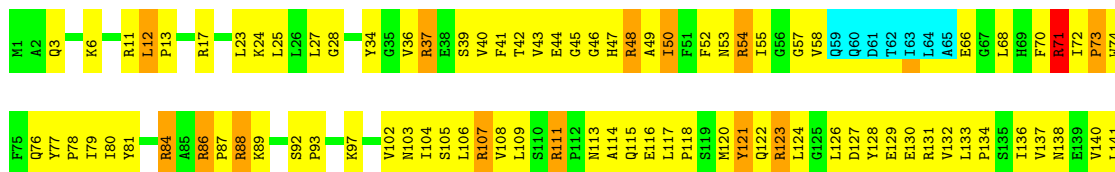


- Molecule 1: Prohibitin-2





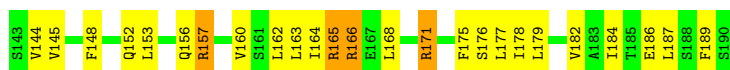
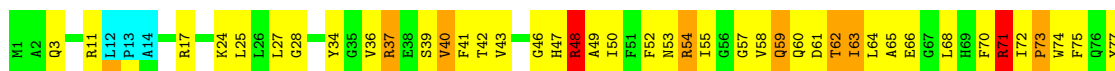
- Molecule 1: Prohibitin-2



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- Molecule 1: Prohibitin-2

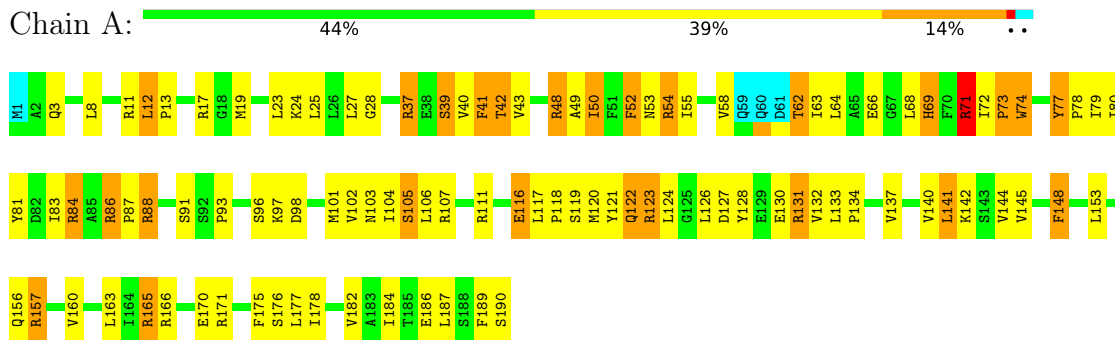


4.2 Scores per residue for each member of the ensemble

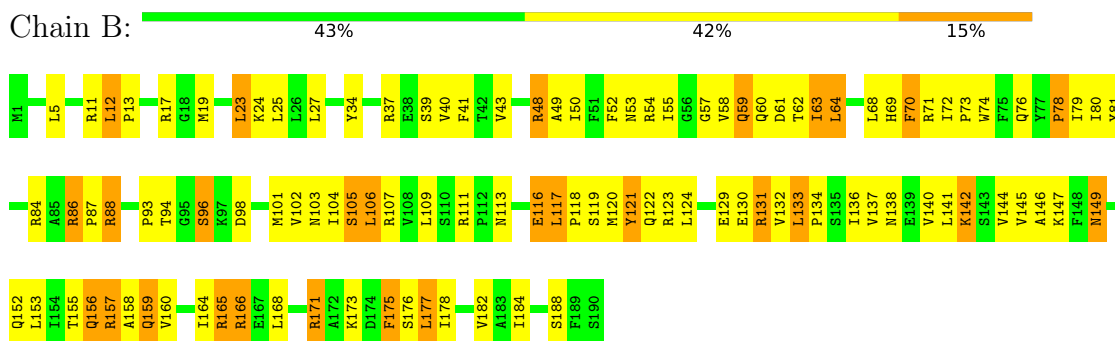
Colouring as in section 4.1 above.

4.2.1 Score per residue for model 1

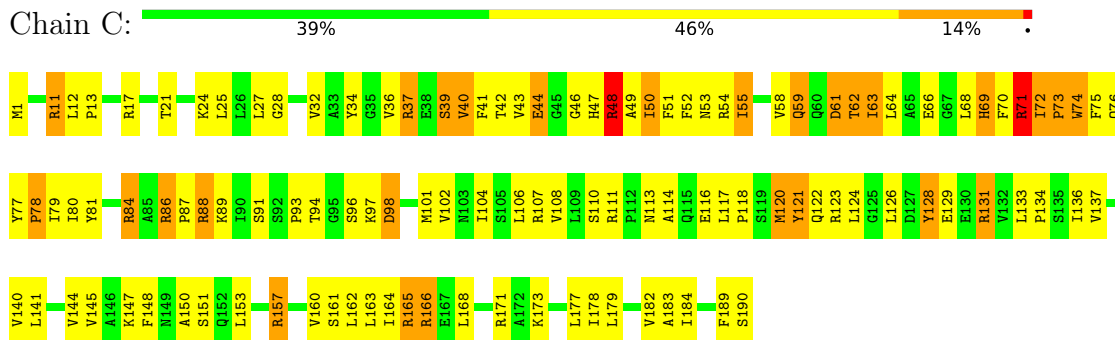
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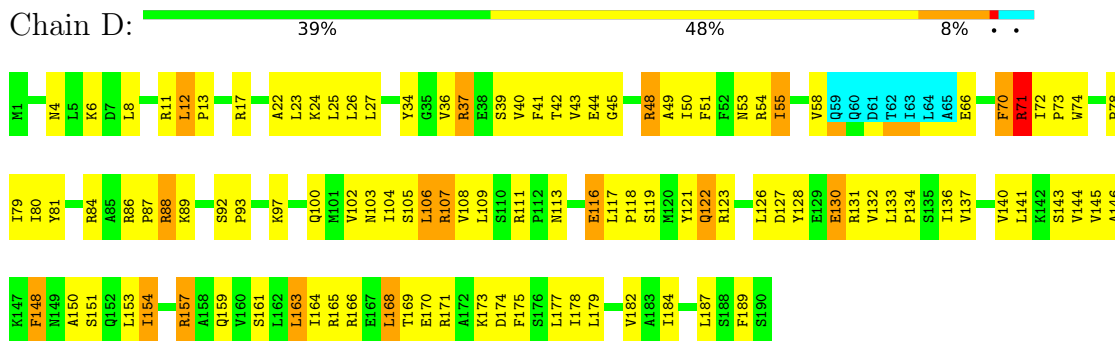
- Molecule 1: Prohibitin-2



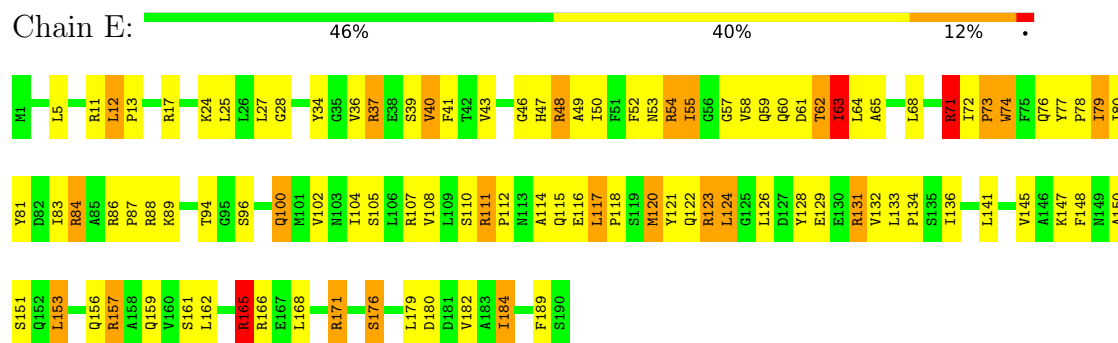
- Molecule 1: Prohibitin-2



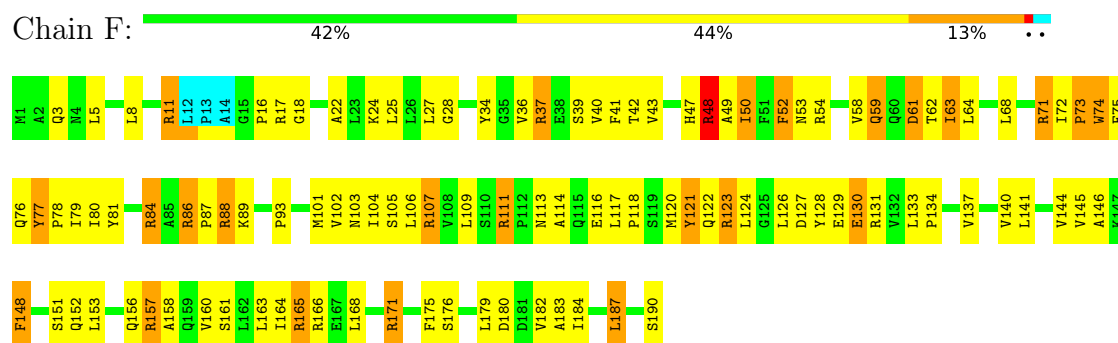
- Molecule 1: Prohibitin-2



- Molecule 1: Prohibitin-2

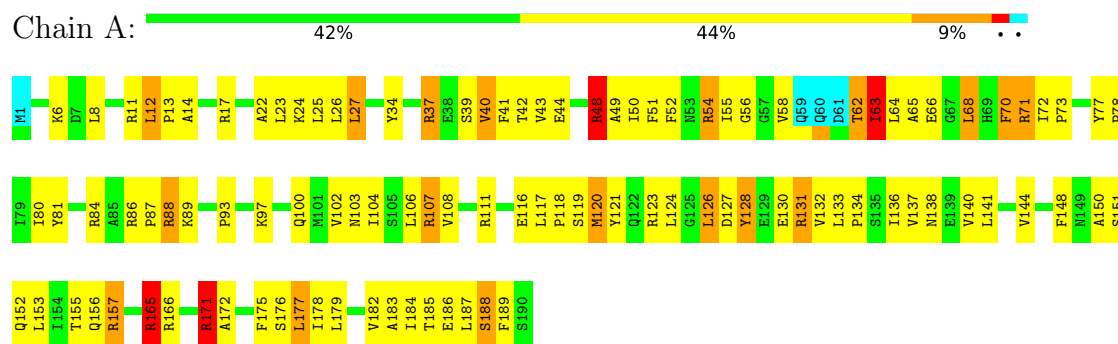


- Molecule 1: Prohibitin-2

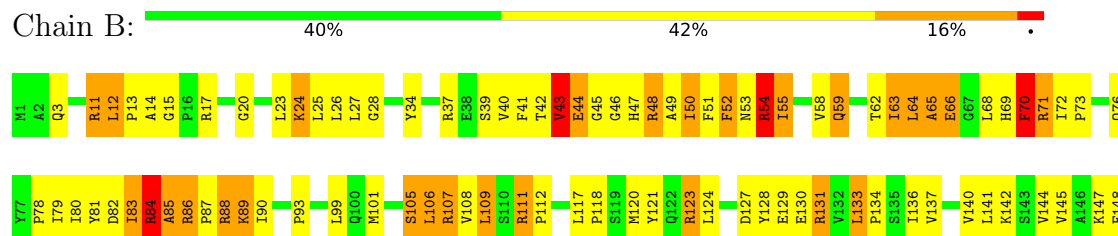


4.2.2 Score per residue for model 2

- Molecule 1: Prohibitin-2

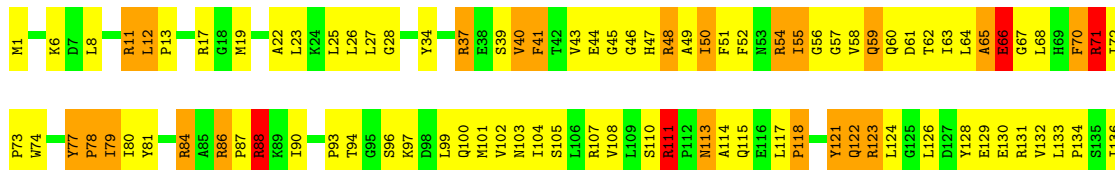


- Molecule 1: Prohibitin-2

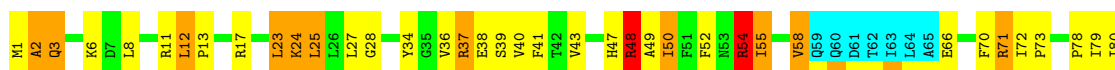




- Molecule 1: Prohibitin-2



- Molecule 1: Prohibitin-2

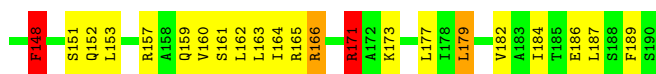


- Molecule 1: Prohibitin-2



- Molecule 1: Prohibitin-2



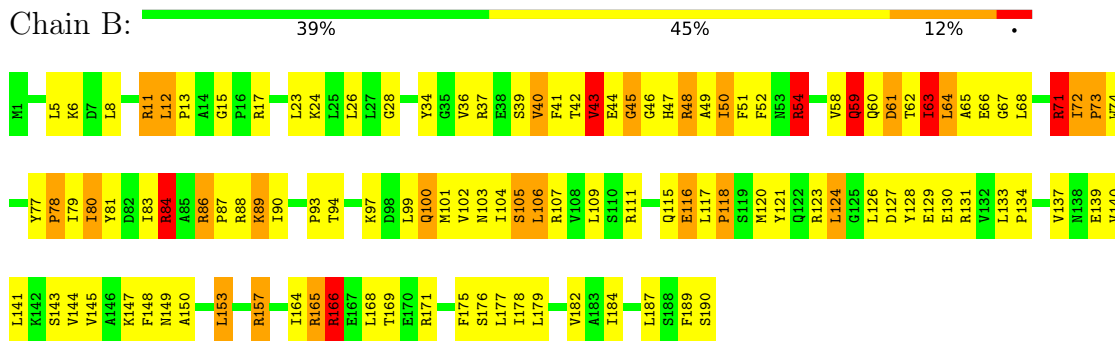


4.2.3 Score per residue for model 3

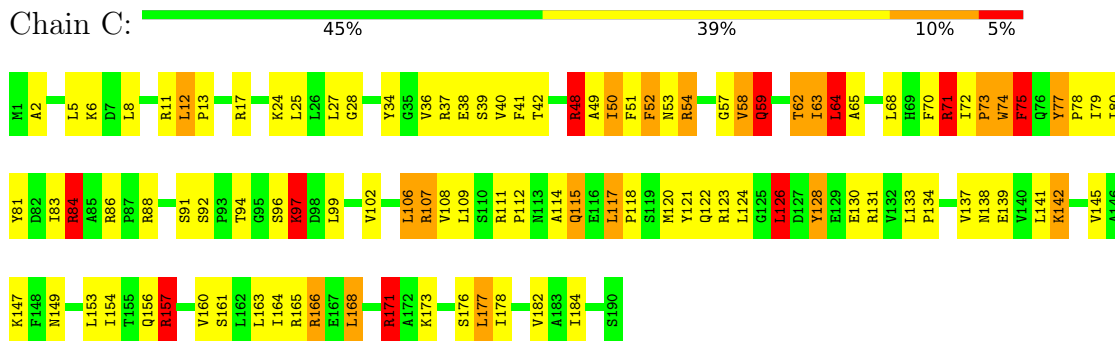
• Molecule 1: Prohibitin-2



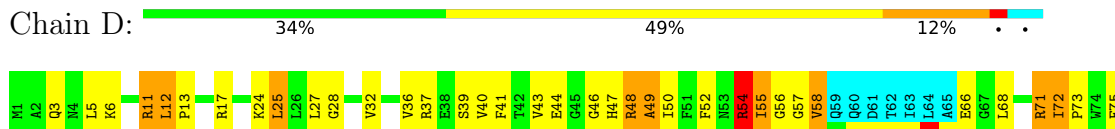
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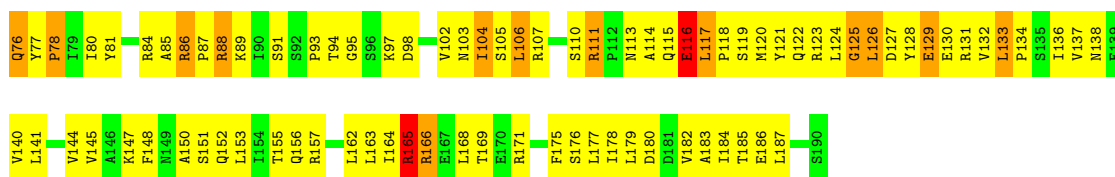


• Molecule 1: Prohibitin-2



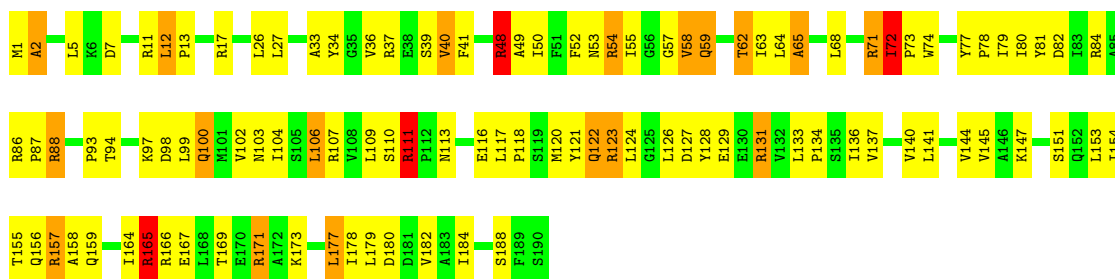
• Molecule 1: Prohibitin-2





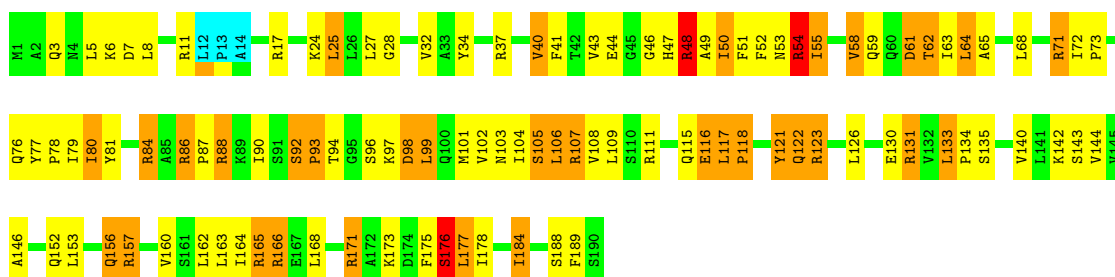
- Molecule 1: Prohibitin-2

Chain E: 45% 44% 9%



- Molecule 1: Prohibitin-2

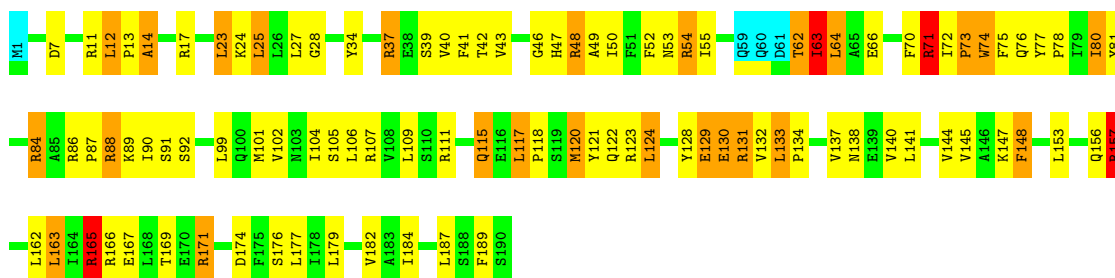
Chain F: 43% 35% 18%



4.2.4 Score per residue for model 4

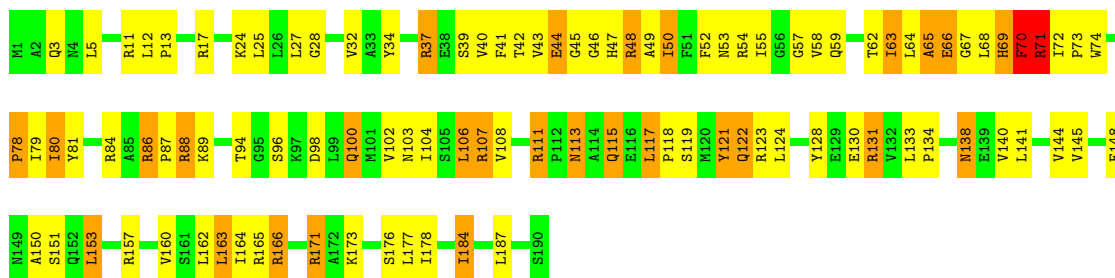
- Molecule 1: Prohibitin-2

Chain A: 45% 37% 13%



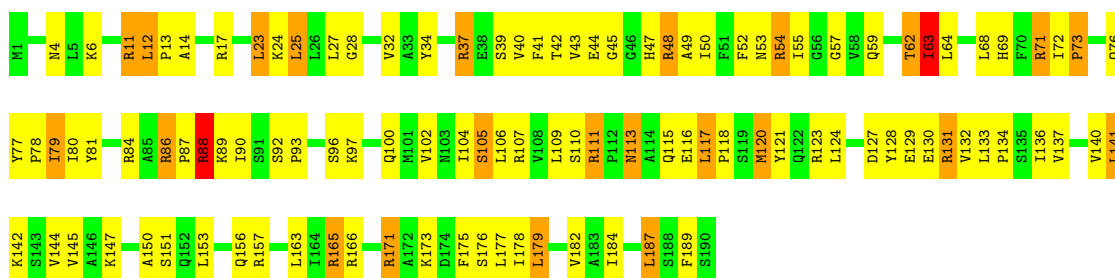
- Molecule 1: Prohibitin-2

Chain B: 46% 38% 15%



- Molecule 1: Prohibitin-2

Chain C: 43% 44% 12%



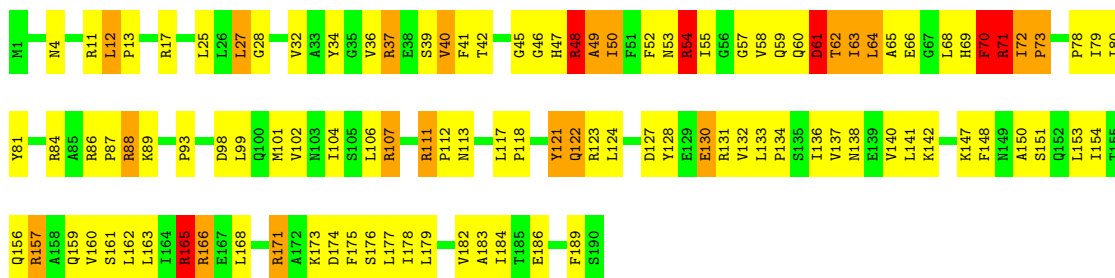
- Molecule 1: Prohibitin-2

Chain D: 47% 38% 11%



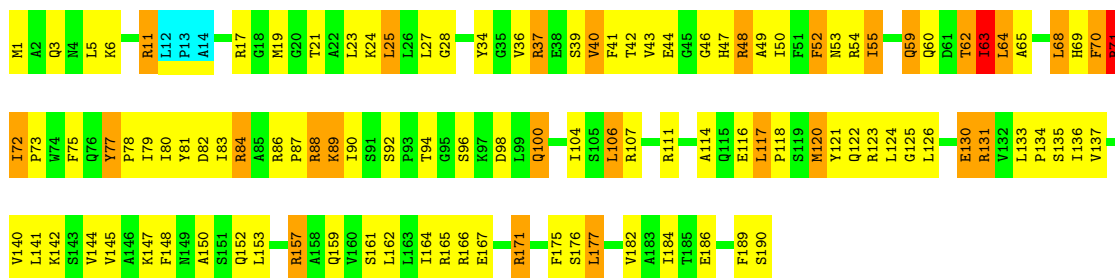
- Molecule 1: Prohibitin-2

Chain E: 42% 44% 11%



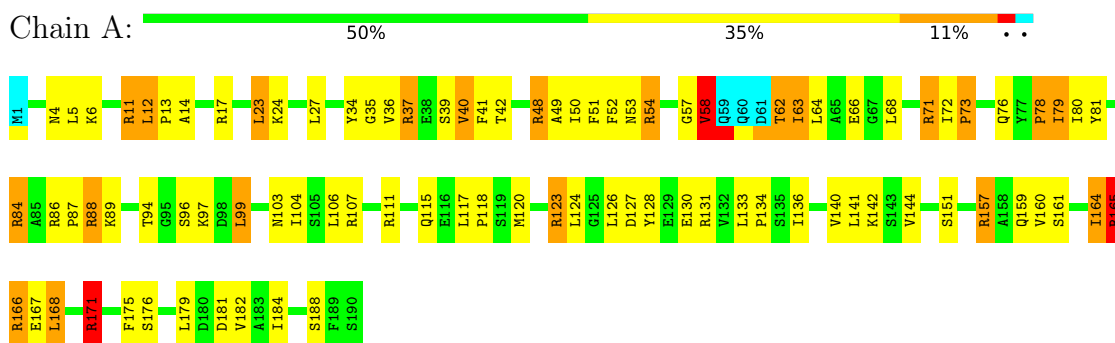
- Molecule 1: Prohibitin-2

Chain F: 40% 44% 14%

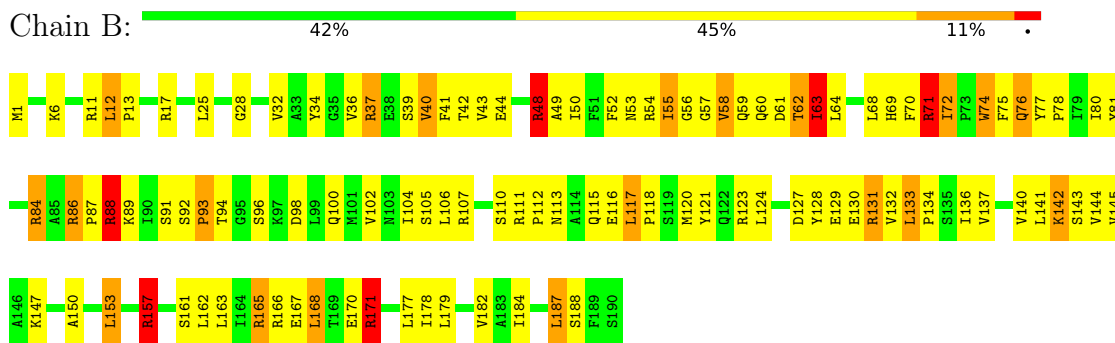


4.2.5 Score per residue for model 5

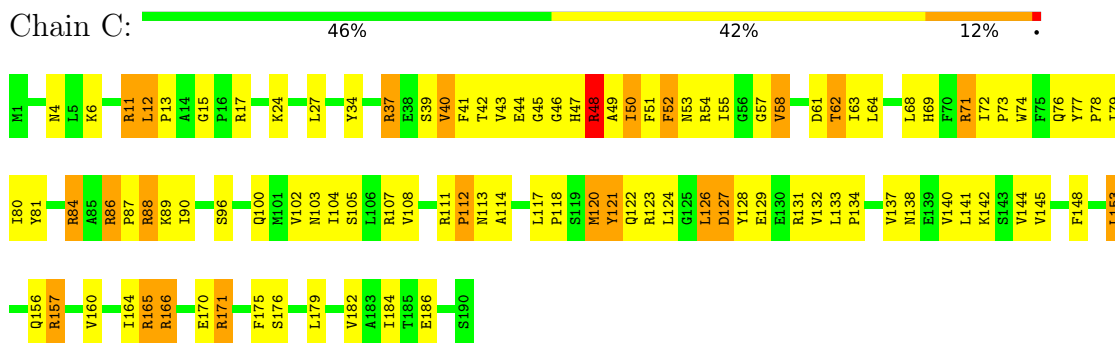
- Molecule 1: Prohibitin-2



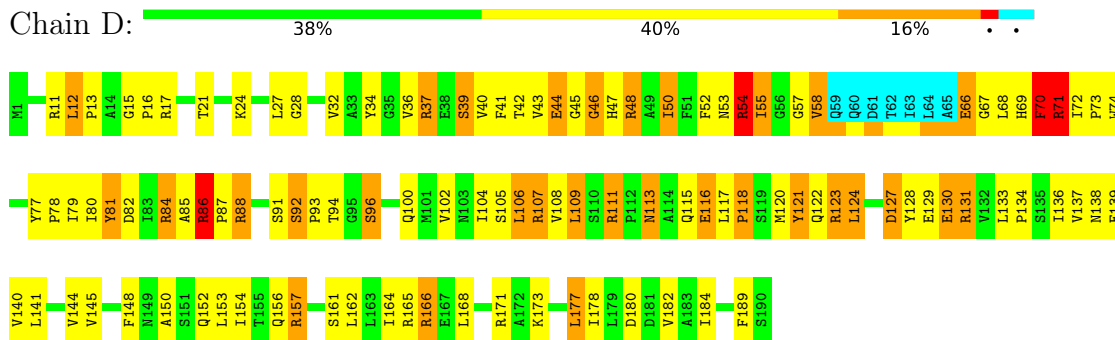
- Molecule 1: Prohibitin-2



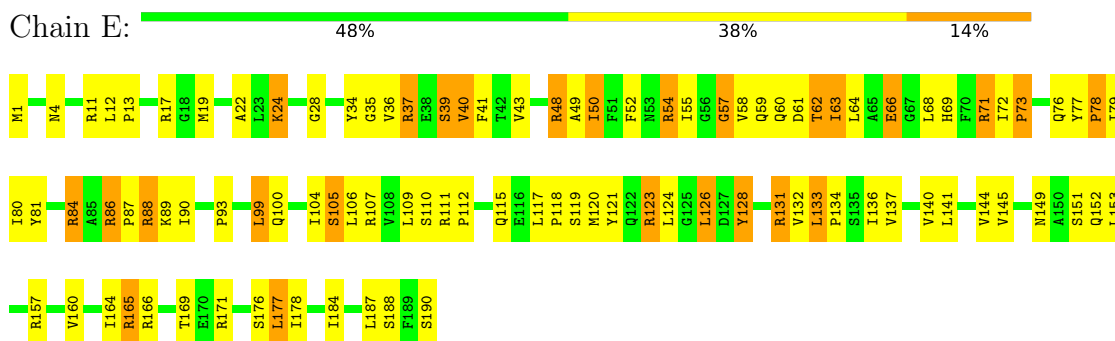
- Molecule 1: Prohibitin-2



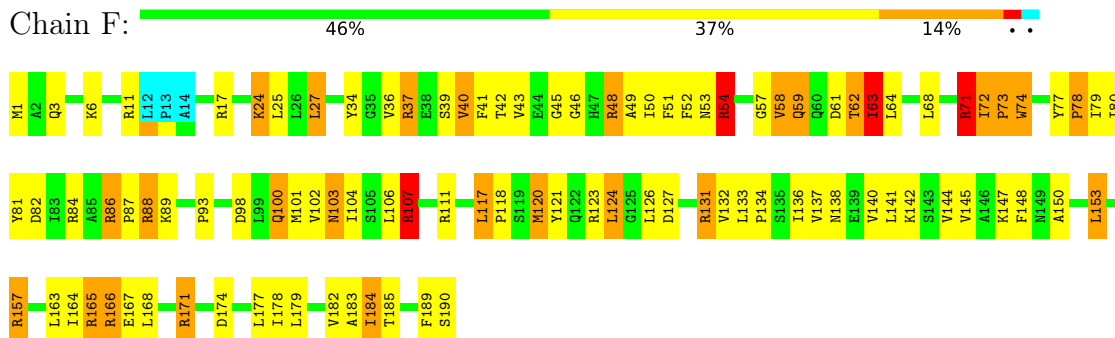
- Molecule 1: Prohibitin-2



- Molecule 1: Prohibitin-2



- Molecule 1: Prohibitin-2



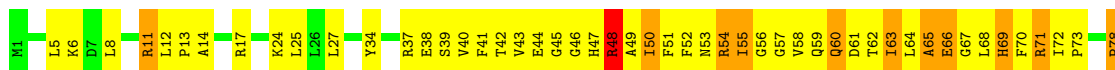
4.2.6 Score per residue for model 6

- Molecule 1: Prohibitin-2

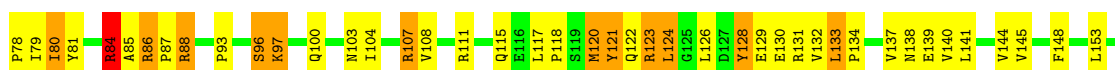




- Molecule 1: Prohibitin-2



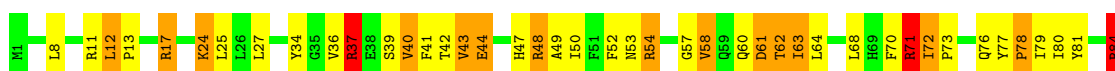
- Molecule 1: Prohibitin-2

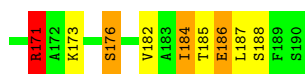


- Molecule 1: Prohibitin-2

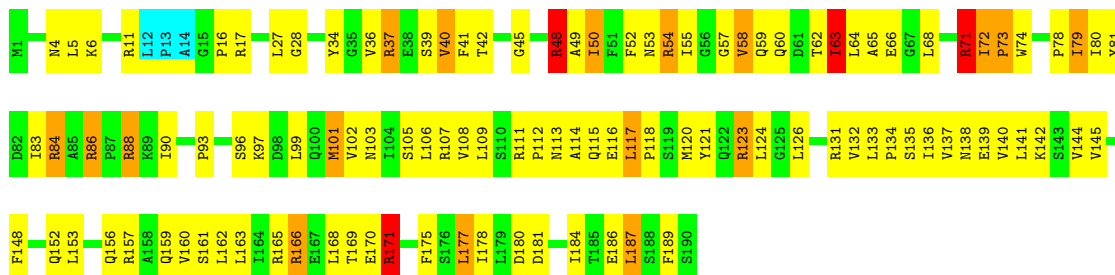


- Molecule 1: Prohibitin-2



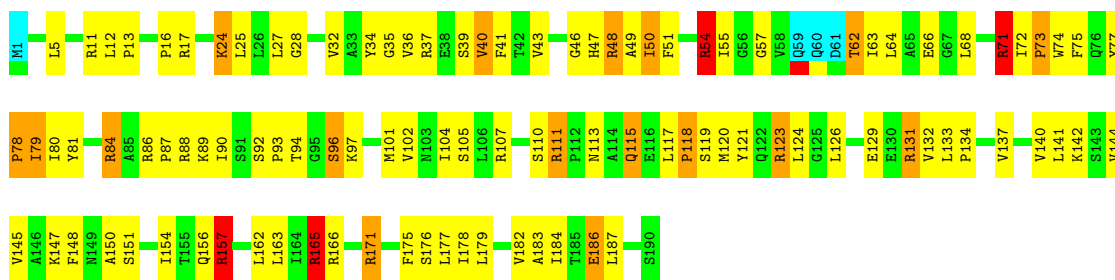


- Molecule 1: Prohibitin-2

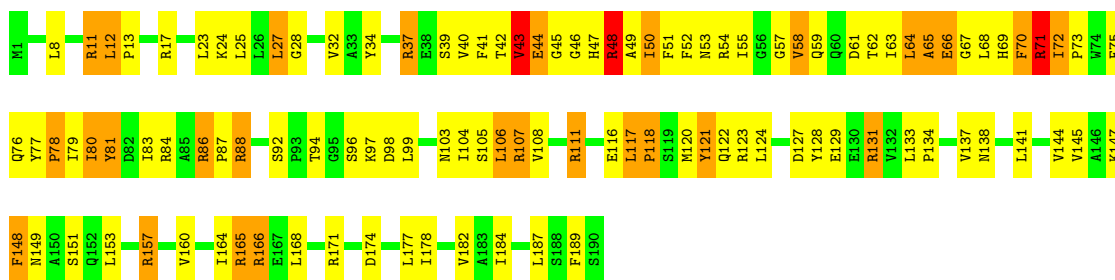


4.2.7 Score per residue for model 7 (medoid)

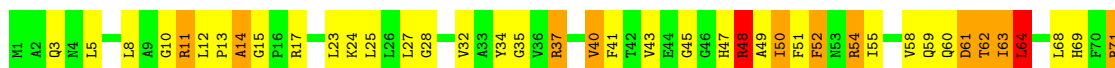
- Molecule 1: Prohibitin-2

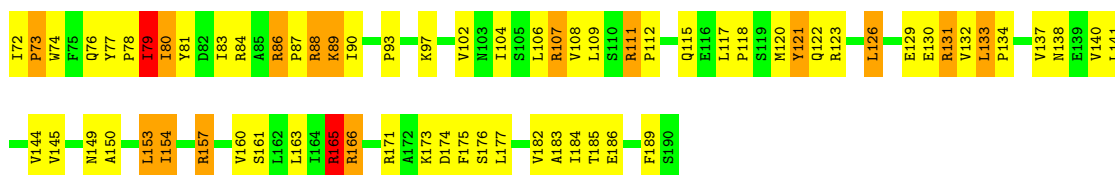


- Molecule 1: Prohibitin-2



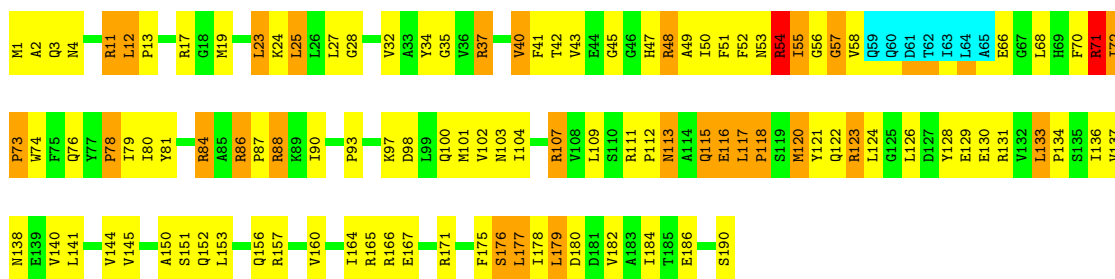
- Molecule 1: Prohibitin-2





- Molecule 1: Prohibitin-2

Chain D: 38% 43% 14%



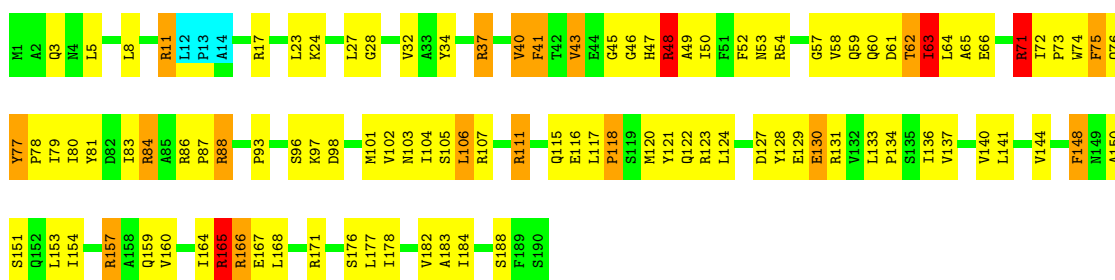
- Molecule 1: Prohibitin-2

Chain E: 45% 45% 8%



- Molecule 1: Prohibitin-2

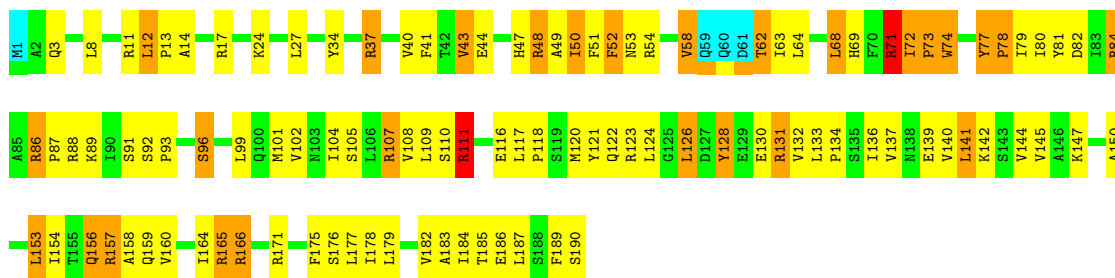
Chain F: 44% 44% 9%



4.2.8 Score per residue for model 8

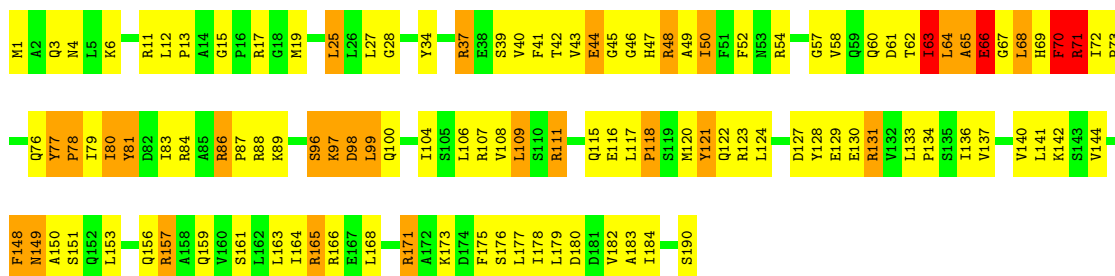
- Molecule 1: Prohibitin-2

Chain A: 42% 41% 14%



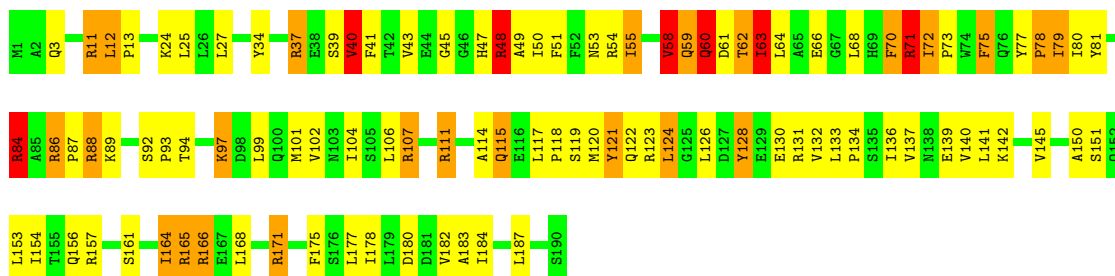
- Molecule 1: Prohibitin-2

Chain B: 39% 45% 14%



- Molecule 1: Prohibitin-2

Chain C: 47% 37% 13%



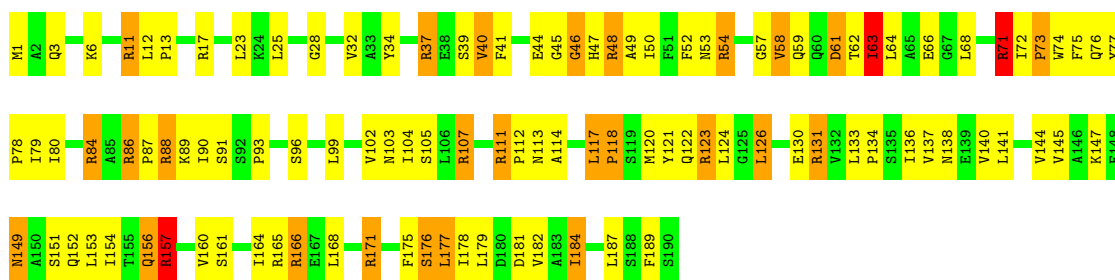
- Molecule 1: Prohibitin-2

Chain D: 43% 39% 13%



- Molecule 1: Prohibitin-2

Chain E: 43% 42% 14%



- Molecule 1: Prohibitin-2

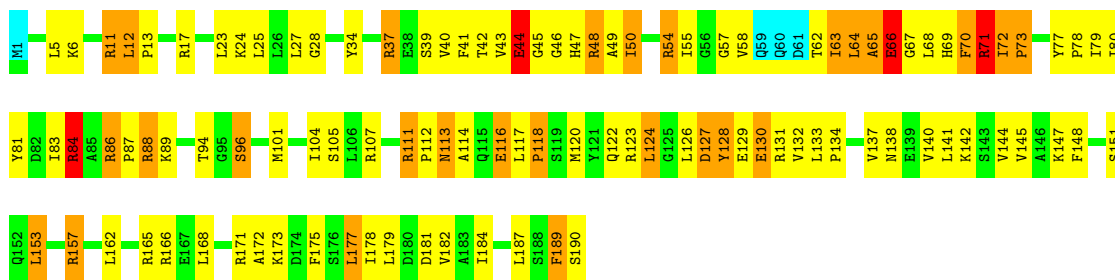
Chain F: 40% 44% 13%



4.2.9 Score per residue for model 9

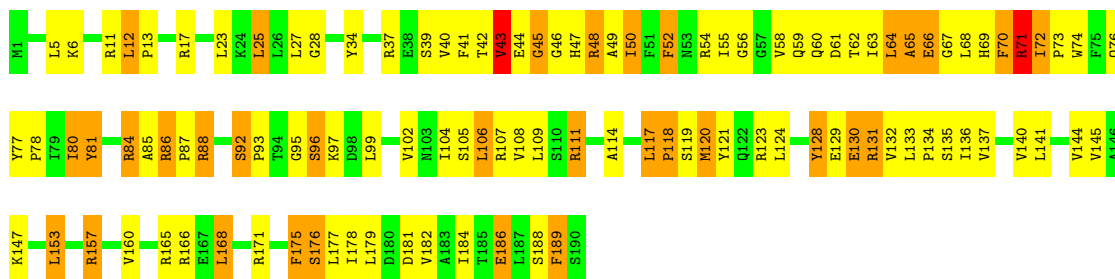
- Molecule 1: Prohibitin-2

Chain A: 42% 40% 14%

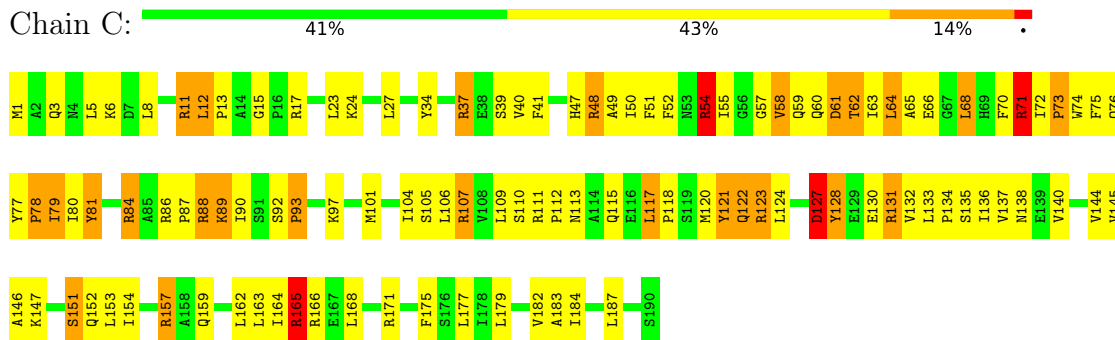


- Molecule 1: Prohibitin-2

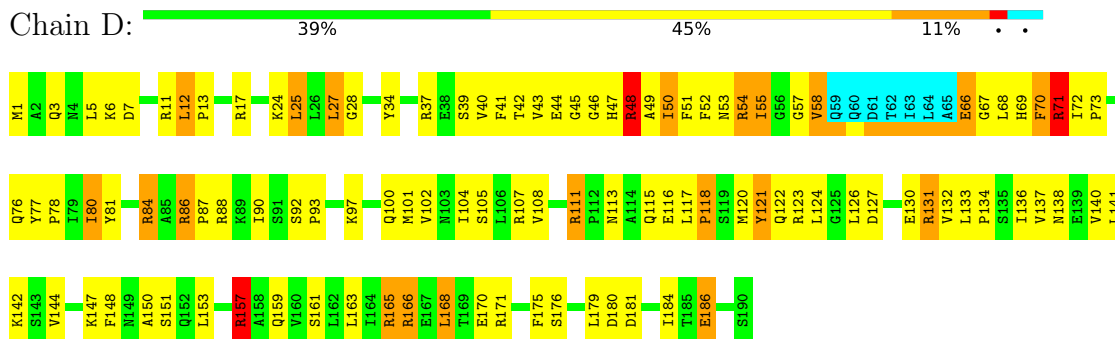
Chain B: 42% 39% 17%



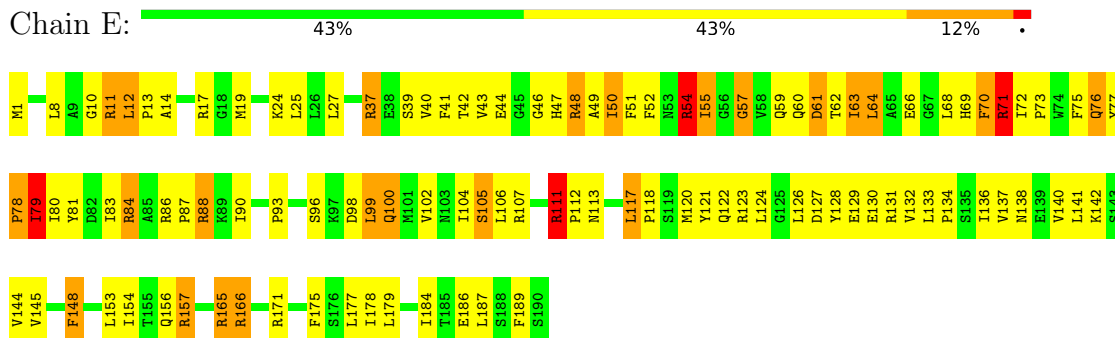
- Molecule 1: Prohibitin-2



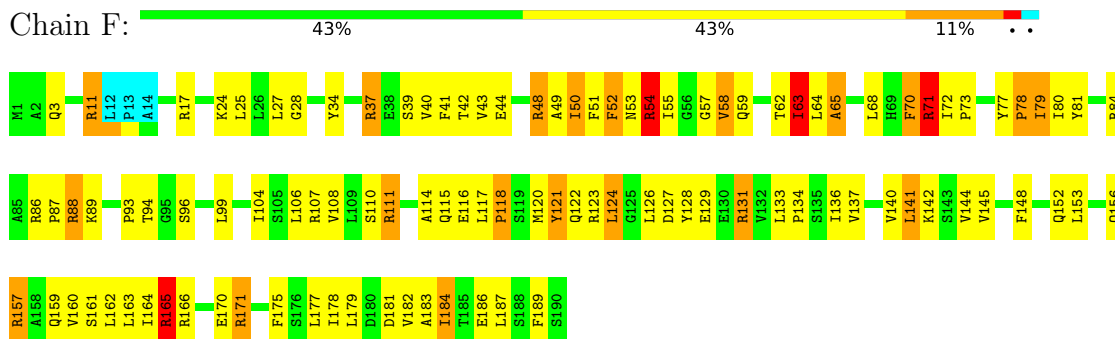
- Molecule 1: Prohibitin-2



- Molecule 1: Prohibitin-2

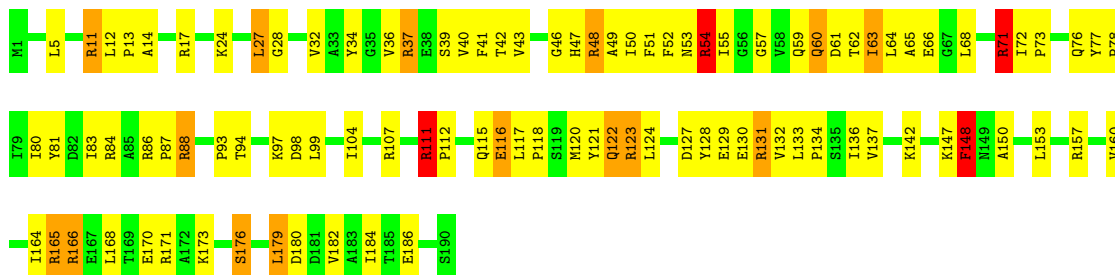


- Molecule 1: Prohibitin-2





- Molecule 1: Prohibitin-2

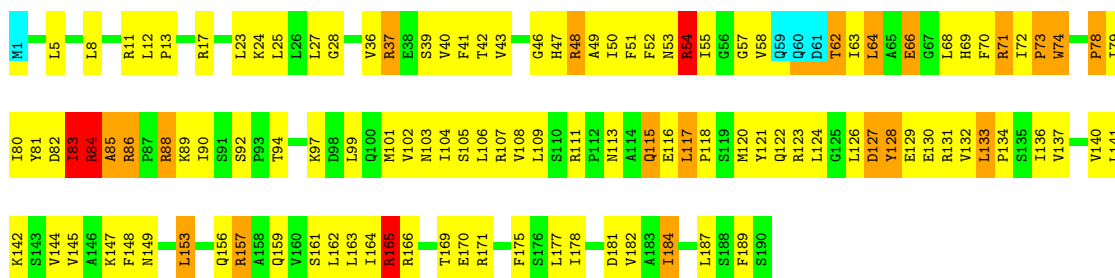


- Molecule 1: Prohibitin-2

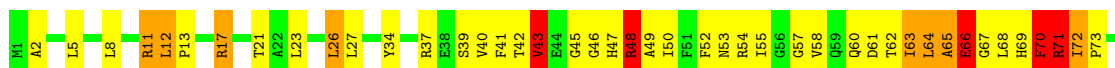


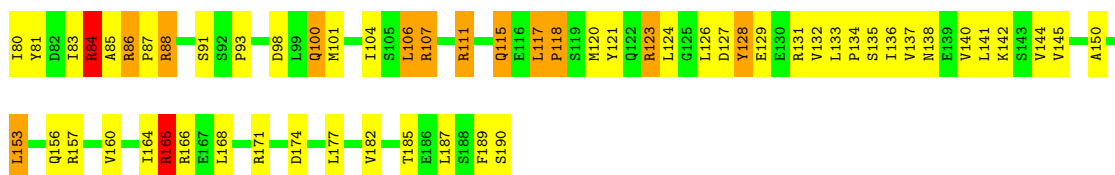
4.2.11 Score per residue for model 11

- Molecule 1: Prohibitin-2



- Molecule 1: Prohibitin-2

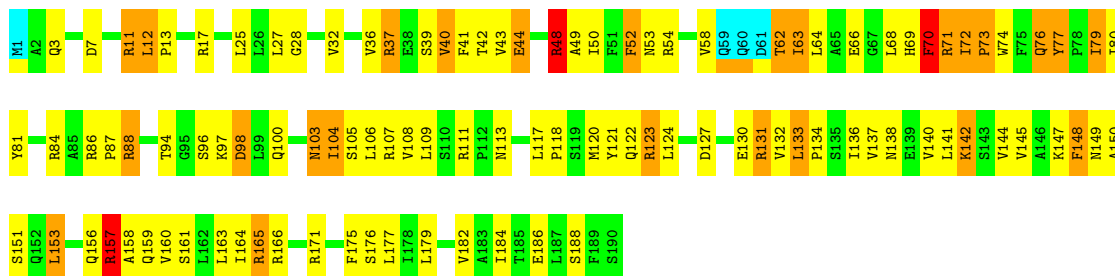




4.2.12 Score per residue for model 12

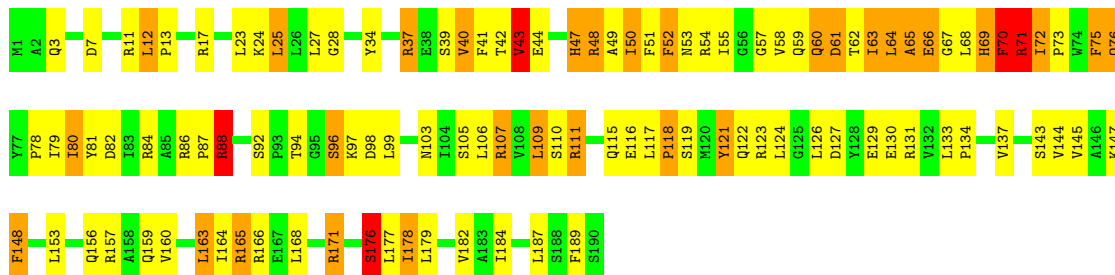
• Molecule 1: Prohibitin-2

Chain A: 43% 41% 13% ••



• Molecule 1: Prohibitin-2

Chain B: 42% 39% 16% •



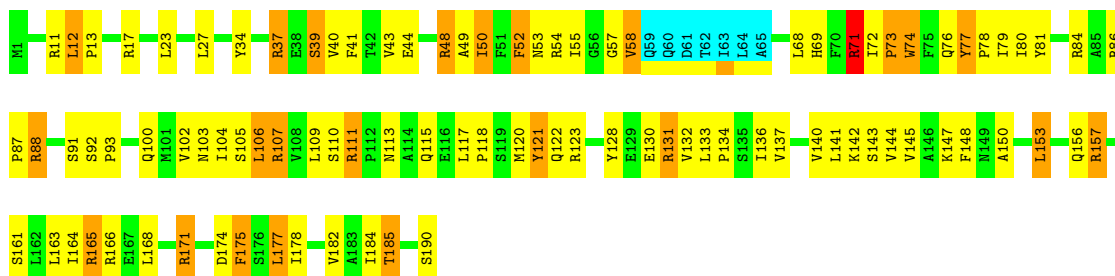
• Molecule 1: Prohibitin-2

Chain C: 42% 42% 15% •



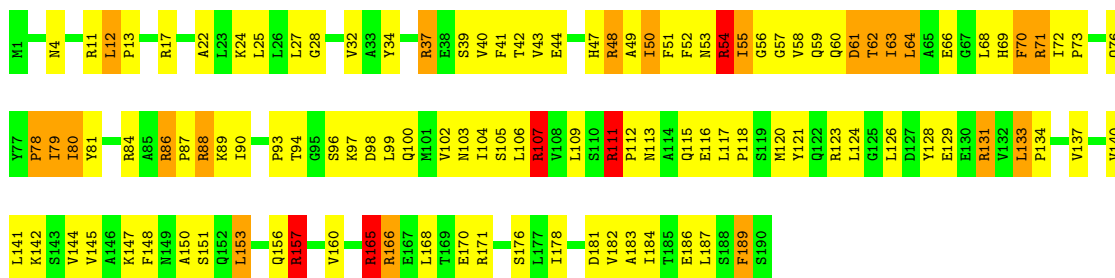
• Molecule 1: Prohibitin-2

Chain D: 47% 37% 12% ••



- Molecule 1: Prohibitin-2

Chain E: 40% 46% 11%



- Molecule 1: Prohibitin-2

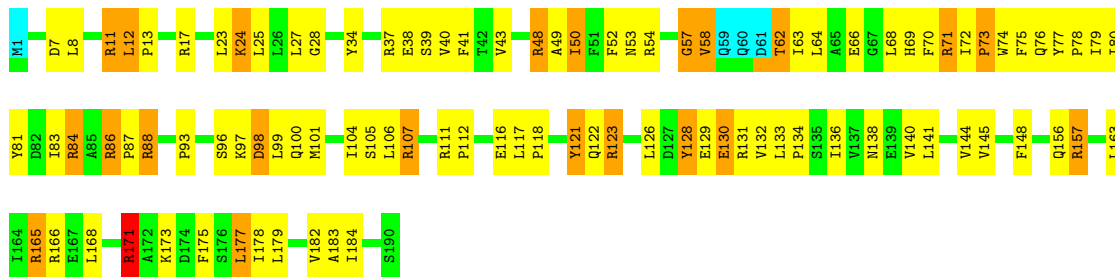
Chain F: 44% 42% 11%



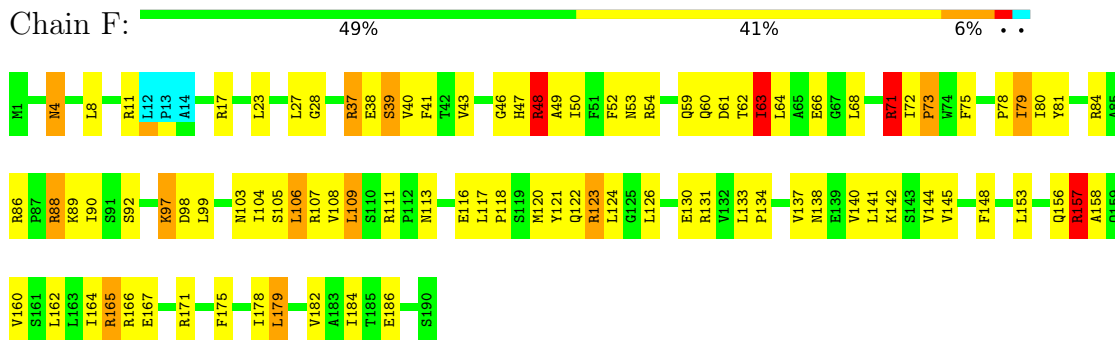
4.2.13 Score per residue for model 13

- Molecule 1: Prohibitin-2

Chain A: 46% 39% 12%

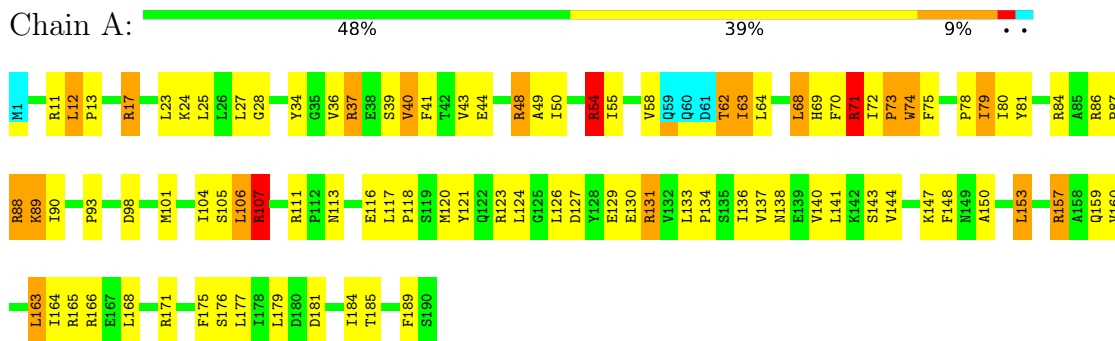


- Molecule 1: Prohibitin-2

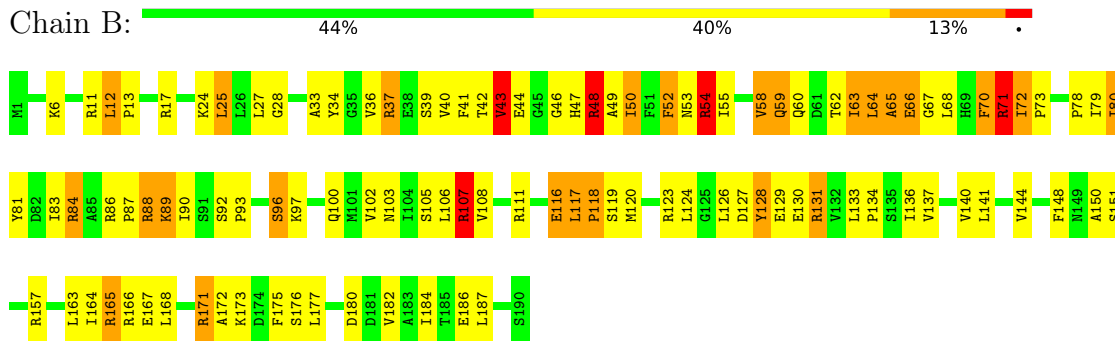


4.2.14 Score per residue for model 14

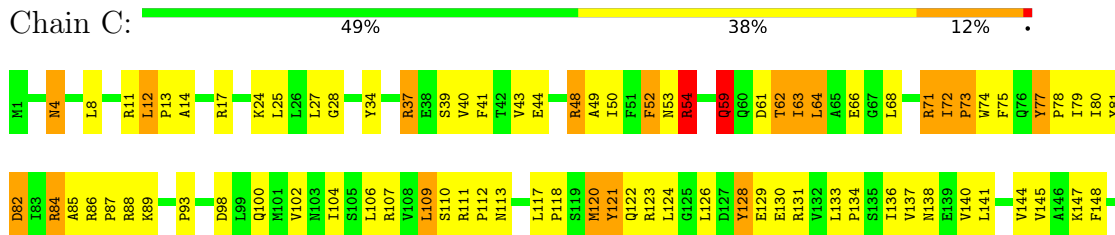
- Molecule 1: Prohibitin-2



- Molecule 1: Prohibitin-2

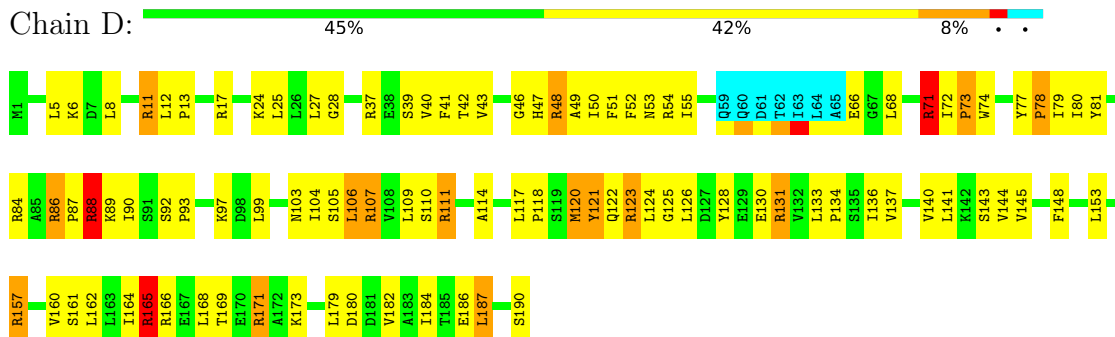


- Molecule 1: Prohibitin-2

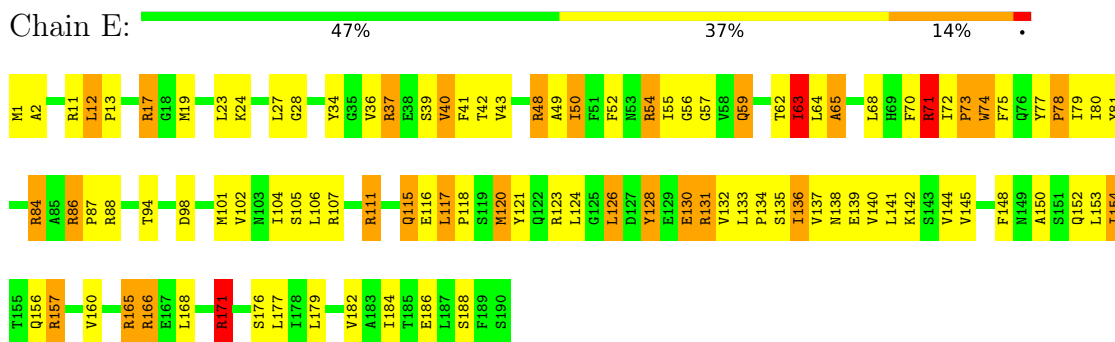




- Molecule 1: Prohibitin-2



- Molecule 1: Prohibitin-2

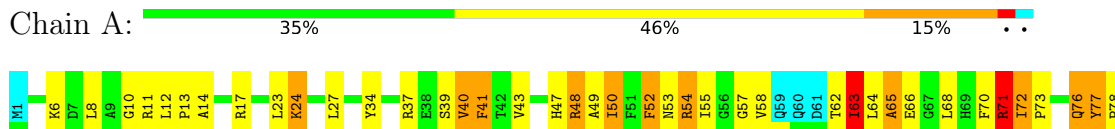


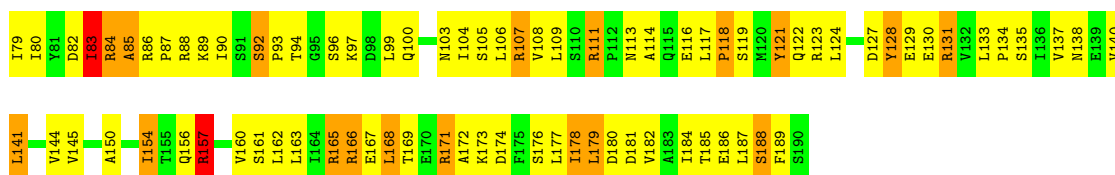
- Molecule 1: Prohibitin-2



4.2.15 Score per residue for model 15

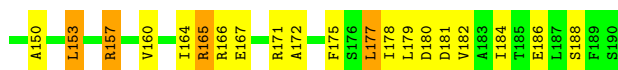
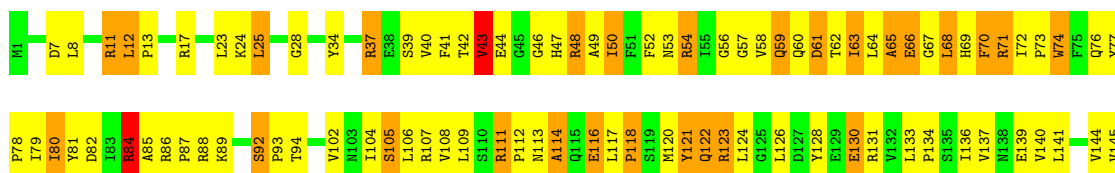
- Molecule 1: Prohibitin-2





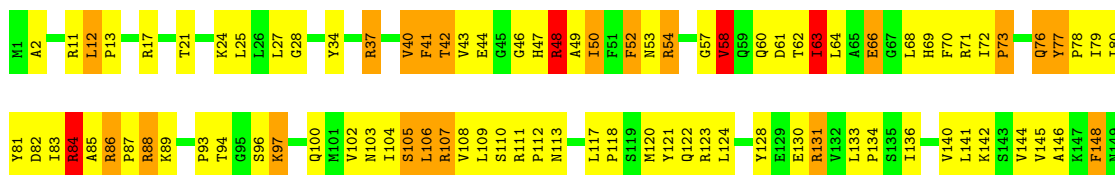
- Molecule 1: Prohibitin-2

Chain B: 41% 42% 16%



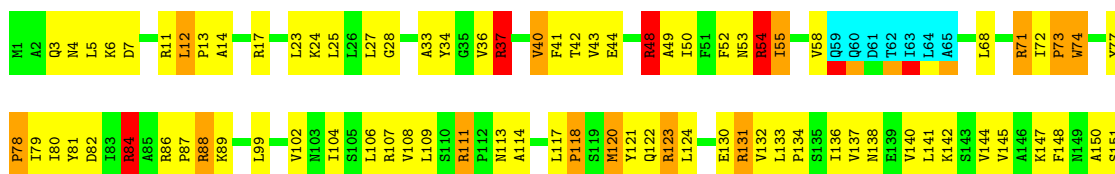
- Molecule 1: Prohibitin-2

Chain C: 44% 43% 11%



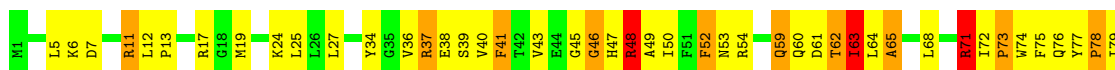
- Molecule 1: Prohibitin-2

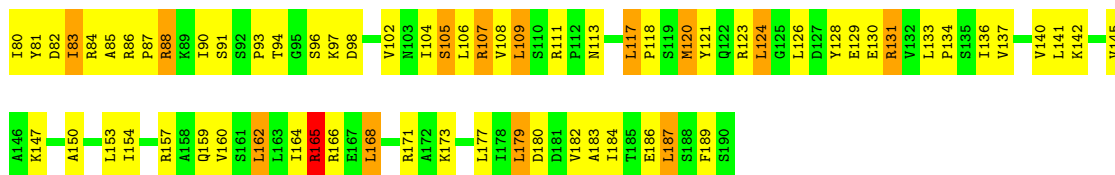
Chain D: 42% 44% 8%



- Molecule 1: Prohibitin-2

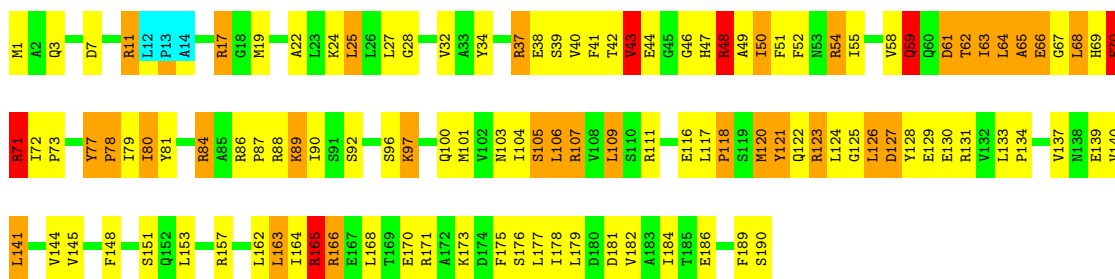
Chain E: 41% 45% 12%





- Molecule 1: Prohibitin-2

Chain F: 38% 41% 17%



5 Refinement protocol and experimental data overview

The models were refined using the following method: *simulated annealing*.

Of the 100 calculated structures, 15 were deposited, based on the following criterion: *structures with the lowest energy*.

The following table shows the software used for structure solution, optimisation and refinement.

Software name	Classification	Version
X-PLOR NIH	structure calculation	
X-PLOR NIH	refinement	

The following table shows chemical shift validation statistics as aggregates over all chemical shift files. Detailed validation can be found in section 7 of this report.

Chemical shift file(s)	working_cs.cif
Number of chemical shift lists	1
Total number of shifts	1688
Number of shifts mapped to atoms	1688
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	10%

6 Model quality i

6.1 Standard geometry i

The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 5$ is considered an outlier worth inspection. RMSZ is the (average) root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#Z>5	RMSZ	#Z>5
1	A	1.06±0.00	0±0/1482 (0.0± 0.0%)	1.24±0.00	0±0/2002 (0.0± 0.0%)
1	B	1.06±0.00	0±0/1516 (0.0± 0.0%)	1.24±0.00	0±0/2047 (0.0± 0.0%)
1	C	1.06±0.00	0±0/1516 (0.0± 0.0%)	1.24±0.00	0±0/2047 (0.0± 0.0%)
1	D	1.06±0.00	0±0/1462 (0.0± 0.0%)	1.24±0.00	0±0/1973 (0.0± 0.0%)
1	E	1.05±0.00	0±0/1516 (0.0± 0.0%)	1.24±0.00	0±0/2047 (0.0± 0.0%)
1	F	1.06±0.00	0±0/1495 (0.0± 0.0%)	1.24±0.00	0±0/2017 (0.0± 0.0%)
All	All	1.06	0/134805 (0.0%)	1.24	2/181995 (0.0%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	Chirality	Planarity
1	A	0.0±0.0	17.0±0.0
1	B	0.0±0.0	16.9±0.2
1	C	0.0±0.0	16.9±0.3
1	D	0.0±0.0	17.0±0.0
1	E	0.0±0.0	17.0±0.0
1	F	0.0±0.0	17.0±0.0
All	All	0	1527

There are no bond-length outliers.

All unique angle outliers are listed below. They are sorted according to the Z-score of the worst occurrence in the ensemble.

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
1	D	49	ALA	N-CA-CB	-5.88	101.87	110.10	3	1
1	E	49	ALA	N-CA-CB	-5.33	102.63	110.10	4	1

There are no chirality outliers.

All unique planar outliers are listed below. They are sorted by the frequency of occurrence in the ensemble.

Mol	Chain	Res	Type	Group	Models (Total)
1	A	11	ARG	Sidechain	15
1	A	17	ARG	Sidechain	15
1	A	37	ARG	Sidechain	15
1	A	48	ARG	Sidechain	15
1	A	54	ARG	Sidechain	15
1	A	71	ARG	Sidechain	15
1	A	84	ARG	Sidechain	15
1	A	86	ARG	Sidechain	15
1	A	88	ARG	Sidechain	15
1	A	107	ARG	Sidechain	15
1	A	111	ARG	Sidechain	15
1	A	123	ARG	Sidechain	15
1	A	131	ARG	Sidechain	15
1	A	157	ARG	Sidechain	15
1	A	165	ARG	Sidechain	15
1	A	166	ARG	Sidechain	15
1	A	171	ARG	Sidechain	15
1	B	11	ARG	Sidechain	15
1	B	17	ARG	Sidechain	15
1	B	37	ARG	Sidechain	15
1	B	48	ARG	Sidechain	15
1	B	54	ARG	Sidechain	15
1	B	71	ARG	Sidechain	15
1	B	84	ARG	Sidechain	15
1	B	88	ARG	Sidechain	15
1	B	107	ARG	Sidechain	15
1	B	111	ARG	Sidechain	15
1	B	123	ARG	Sidechain	15
1	B	131	ARG	Sidechain	15
1	B	157	ARG	Sidechain	15
1	B	165	ARG	Sidechain	15
1	B	166	ARG	Sidechain	15
1	B	171	ARG	Sidechain	15
1	C	11	ARG	Sidechain	15
1	C	37	ARG	Sidechain	15
1	C	48	ARG	Sidechain	15
1	C	54	ARG	Sidechain	15
1	C	84	ARG	Sidechain	15
1	C	86	ARG	Sidechain	15
1	C	88	ARG	Sidechain	15
1	C	107	ARG	Sidechain	15

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Mol	Chain	Res	Type	Group	Models (Total)
1	C	111	ARG	Sidechain	15
1	C	123	ARG	Sidechain	15
1	C	131	ARG	Sidechain	15
1	C	157	ARG	Sidechain	15
1	C	165	ARG	Sidechain	15
1	C	166	ARG	Sidechain	15
1	C	171	ARG	Sidechain	15
1	D	11	ARG	Sidechain	15
1	D	17	ARG	Sidechain	15
1	D	37	ARG	Sidechain	15
1	D	48	ARG	Sidechain	15
1	D	54	ARG	Sidechain	15
1	D	71	ARG	Sidechain	15
1	D	84	ARG	Sidechain	15
1	D	86	ARG	Sidechain	15
1	D	88	ARG	Sidechain	15
1	D	107	ARG	Sidechain	15
1	D	111	ARG	Sidechain	15
1	D	123	ARG	Sidechain	15
1	D	131	ARG	Sidechain	15
1	D	157	ARG	Sidechain	15
1	D	165	ARG	Sidechain	15
1	D	166	ARG	Sidechain	15
1	D	171	ARG	Sidechain	15
1	E	11	ARG	Sidechain	15
1	E	17	ARG	Sidechain	15
1	E	37	ARG	Sidechain	15
1	E	48	ARG	Sidechain	15
1	E	54	ARG	Sidechain	15
1	E	71	ARG	Sidechain	15
1	E	84	ARG	Sidechain	15
1	E	86	ARG	Sidechain	15
1	E	88	ARG	Sidechain	15
1	E	107	ARG	Sidechain	15
1	E	111	ARG	Sidechain	15
1	E	123	ARG	Sidechain	15
1	E	131	ARG	Sidechain	15
1	E	157	ARG	Sidechain	15
1	E	165	ARG	Sidechain	15
1	E	166	ARG	Sidechain	15
1	E	171	ARG	Sidechain	15
1	F	11	ARG	Sidechain	15

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Mol	Chain	Res	Type	Group	Models (Total)
1	F	17	ARG	Sidechain	15
1	F	37	ARG	Sidechain	15
1	F	48	ARG	Sidechain	15
1	F	54	ARG	Sidechain	15
1	F	71	ARG	Sidechain	15
1	F	84	ARG	Sidechain	15
1	F	86	ARG	Sidechain	15
1	F	88	ARG	Sidechain	15
1	F	107	ARG	Sidechain	15
1	F	111	ARG	Sidechain	15
1	F	123	ARG	Sidechain	15
1	F	131	ARG	Sidechain	15
1	F	157	ARG	Sidechain	15
1	F	165	ARG	Sidechain	15
1	F	166	ARG	Sidechain	15
1	F	171	ARG	Sidechain	15
1	B	86	ARG	Sidechain	14
1	C	17	ARG	Sidechain	14
1	C	71	ARG	Sidechain	14

6.2 Too-close contacts

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in each chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes averaged over the ensemble.

Mol	Chain	Non-H	H(model)	H(added)	Clashes
1	A	1457	1516	1516	100±15
1	B	1491	1547	1547	129±13
1	C	1491	1547	1547	105±19
1	D	1437	1493	1493	79±11
1	E	1491	1547	1547	96±7
1	F	1471	1524	1524	102±19
All	All	132570	137610	137610	8796

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 33.

All unique clashes are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:D:43:VAL:HG22	1:D:67:GLY:O	1.11	1.45	9	2
1:B:49:ALA:HB2	1:B:64:LEU:HD13	1.08	1.22	2	1
1:D:106:LEU:HD22	1:D:137:VAL:HG11	1.07	1.24	8	1
1:C:102:VAL:HG22	1:C:150:ALA:HB2	1.04	1.24	13	2
1:E:106:LEU:HD13	1:E:164:ILE:HG21	1.03	1.28	3	2
1:F:104:ILE:HD11	1:F:153:LEU:HD11	1.03	1.19	5	1
1:B:43:VAL:HG12	1:B:65:ALA:N	1.01	1.70	3	10
1:A:137:VAL:HG11	1:A:182:VAL:HG11	1.01	1.21	3	1
1:B:43:VAL:HG22	1:B:67:GLY:O	1.01	1.56	4	2
1:B:94:THR:HG23	1:B:145:VAL:HG11	1.00	1.28	15	2
1:B:102:VAL:HG22	1:B:150:ALA:HB2	1.00	1.23	5	4
1:E:102:VAL:HG22	1:E:153:LEU:HD12	1.00	1.29	8	1
1:C:43:VAL:HG22	1:C:67:GLY:O	0.99	1.56	2	1
1:D:106:LEU:HD12	1:D:168:LEU:HD13	0.99	1.33	5	1
1:D:43:VAL:HG23	1:D:66:GLU:N	0.98	1.73	9	2
1:A:136:ILE:HD12	1:A:137:VAL:HG13	0.98	1.35	3	1
1:A:104:ILE:HD12	1:A:145:VAL:HG22	0.98	1.35	13	4
1:A:43:VAL:HG22	1:A:67:GLY:O	0.96	1.59	9	1
1:E:102:VAL:HG22	1:E:150:ALA:HB2	0.96	1.32	11	3
1:D:50:ILE:HD11	1:D:80:ILE:HG22	0.95	1.33	5	1
1:A:102:VAL:HG22	1:A:150:ALA:HB2	0.95	1.36	7	1
1:E:102:VAL:HG12	1:E:104:ILE:HD11	0.94	1.40	8	1
1:B:104:ILE:HD12	1:B:145:VAL:HG22	0.94	1.38	15	2
1:C:108:VAL:HG11	1:C:133:LEU:HD11	0.94	1.39	2	1
1:A:48:ARG:HB3	1:A:64:LEU:N	0.93	1.79	2	13
1:F:48:ARG:HB2	1:F:63:ILE:HB	0.92	1.36	6	10
1:E:48:ARG:HB2	1:E:63:ILE:CB	0.92	1.95	15	14
1:B:50:ILE:HD11	1:B:63:ILE:O	0.92	1.65	3	9
1:F:90:ILE:HD12	1:F:184:ILE:HG21	0.91	1.42	3	1
1:C:50:ILE:HG21	1:C:62:THR:CB	0.91	1.96	15	3
1:F:48:ARG:HB2	1:F:63:ILE:CB	0.91	1.95	12	12
1:B:43:VAL:HG23	1:B:66:GLU:N	0.90	1.81	4	2
1:D:108:VAL:HG12	1:D:137:VAL:HG21	0.90	1.38	13	1
1:E:104:ILE:HG21	1:E:145:VAL:HG21	0.90	1.43	3	1
1:D:104:ILE:HD13	1:D:145:VAL:HG23	0.90	1.39	6	1
1:D:141:LEU:HD23	1:D:164:ILE:HD11	0.90	1.40	7	1
1:A:48:ARG:HB2	1:A:63:ILE:CB	0.90	1.96	3	13
1:B:104:ILE:HD11	1:B:153:LEU:HD11	0.90	1.41	3	2
1:E:165:ARG:HB2	1:E:182:VAL:HG21	0.90	1.43	6	1
1:C:48:ARG:HB3	1:C:64:LEU:N	0.90	1.81	15	11
1:A:106:LEU:HD13	1:A:141:LEU:HD12	0.90	1.40	3	1
1:A:48:ARG:O	1:A:63:ILE:O	0.90	1.89	9	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:184:ILE:HD13	1:B:185:THR:N	0.90	1.81	13	2
1:D:104:ILE:HG21	1:D:144:VAL:HG21	0.90	1.44	12	1
1:B:50:ILE:HD13	1:B:62:THR:O	0.89	1.66	11	1
1:A:48:ARG:HB2	1:A:63:ILE:HB	0.89	1.41	3	12
1:F:48:ARG:HB3	1:F:64:LEU:N	0.89	1.83	7	13
1:B:48:ARG:O	1:B:63:ILE:O	0.89	1.89	7	13
1:A:50:ILE:HG21	1:A:62:THR:CB	0.89	1.97	15	4
1:A:106:LEU:HD23	1:A:141:LEU:HD23	0.89	1.41	4	1
1:B:48:ARG:CG	1:B:63:ILE:HG23	0.88	1.97	5	1
1:F:48:ARG:O	1:F:63:ILE:O	0.88	1.92	14	2
1:C:50:ILE:HD11	1:C:63:ILE:O	0.88	1.69	11	2
1:E:48:ARG:HB2	1:E:63:ILE:HB	0.88	1.45	14	12
1:D:49:ALA:C	1:D:50:ILE:HD13	0.87	1.90	11	5
1:E:50:ILE:HG21	1:E:62:THR:OG1	0.87	1.69	9	6
1:E:106:LEU:HD23	1:E:141:LEU:HD13	0.87	1.45	5	1
1:C:48:ARG:HB2	1:C:63:ILE:CB	0.87	2.00	13	10
1:C:43:VAL:HG23	1:C:66:GLU:N	0.87	1.84	2	1
1:E:49:ALA:C	1:E:50:ILE:HD13	0.87	1.90	12	5
1:A:49:ALA:C	1:A:50:ILE:HD13	0.86	1.89	15	7
1:F:50:ILE:HG21	1:F:62:THR:CB	0.86	2.00	9	4
1:C:49:ALA:C	1:C:50:ILE:HD13	0.86	1.91	3	5
1:A:50:ILE:HG21	1:A:62:THR:OG1	0.86	1.70	3	8
1:A:50:ILE:HD12	1:A:62:THR:O	0.86	1.69	13	5
1:F:48:ARG:HB2	1:F:63:ILE:CA	0.86	1.99	10	9
1:B:49:ALA:HB1	1:B:70:PHE:CE2	0.86	2.05	8	2
1:E:50:ILE:HG21	1:E:62:THR:CB	0.86	2.01	14	2
1:F:50:ILE:HD11	1:F:63:ILE:O	0.86	1.71	15	1
1:A:50:ILE:N	1:A:50:ILE:HD13	0.85	1.87	9	3
1:B:43:VAL:HG12	1:B:65:ALA:CA	0.85	2.01	8	10
1:F:49:ALA:C	1:F:50:ILE:HD13	0.85	1.92	3	5
1:F:117:LEU:O	1:F:117:LEU:HD22	0.85	1.72	3	1
1:A:43:VAL:HG23	1:A:66:GLU:N	0.85	1.87	9	1
1:B:52:PHE:CE2	1:B:58:VAL:HG22	0.85	2.07	10	1
1:A:50:ILE:HD13	1:A:50:ILE:N	0.85	1.87	13	5
1:A:50:ILE:N	1:A:50:ILE:HD12	0.84	1.87	11	7
1:B:50:ILE:HG21	1:B:62:THR:HB	0.84	1.46	13	4
1:C:144:VAL:HG11	1:C:164:ILE:HD11	0.84	1.47	9	1
1:F:164:ILE:HG22	1:F:168:LEU:HD12	0.84	1.46	12	1
1:D:50:ILE:HD13	1:D:50:ILE:N	0.84	1.87	4	6
1:E:48:ARG:HB3	1:E:64:LEU:N	0.84	1.87	13	14
1:D:50:ILE:N	1:D:50:ILE:HD12	0.84	1.88	3	9

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:C:50:ILE:HD12	1:C:62:THR:O	0.84	1.72	10	4
1:E:104:ILE:HD12	1:E:145:VAL:HG22	0.84	1.49	9	2
1:D:50:ILE:CD1	1:D:80:ILE:HG22	0.84	2.02	5	8
1:D:50:ILE:HD13	1:D:80:ILE:HA	0.83	1.50	8	7
1:E:50:ILE:HD13	1:E:80:ILE:HA	0.83	1.50	2	10
1:A:26:LEU:HD11	1:F:25:LEU:HD21	0.83	1.51	2	1
1:D:144:VAL:HG21	1:D:164:ILE:HG22	0.83	1.50	14	2
1:B:136:ILE:HD11	1:B:175:PHE:CE1	0.83	2.08	8	2
1:C:50:ILE:N	1:C:50:ILE:HD13	0.83	1.89	5	3
1:E:48:ARG:HB2	1:E:63:ILE:CA	0.83	2.02	10	14
1:D:90:ILE:HD11	1:D:186:GLU:CB	0.83	2.03	11	1
1:F:50:ILE:HG21	1:F:62:THR:OG1	0.83	1.74	14	8
1:E:50:ILE:HD12	1:E:62:THR:O	0.83	1.72	5	3
1:F:48:ARG:CG	1:F:63:ILE:HB	0.83	2.02	2	6
1:A:50:ILE:HD13	1:A:80:ILE:HA	0.83	1.47	5	7
1:B:105:SER:O	1:B:184:ILE:HG21	0.83	1.73	1	9
1:C:48:ARG:O	1:C:63:ILE:O	0.83	1.97	2	3
1:D:165:ARG:CG	1:D:182:VAL:HG11	0.83	2.04	15	1
1:B:50:ILE:HG21	1:B:62:THR:CB	0.82	2.03	13	6
1:E:106:LEU:CD2	1:E:141:LEU:HD13	0.82	2.04	5	1
1:B:48:ARG:HB2	1:B:63:ILE:CA	0.82	2.05	1	2
1:F:104:ILE:HG22	1:F:145:VAL:HG21	0.82	1.47	9	1
1:D:104:ILE:HD11	1:D:160:VAL:HG11	0.82	1.50	14	1
1:F:43:VAL:HG13	1:F:64:LEU:HG	0.82	1.48	14	2
1:B:50:ILE:H	1:B:50:ILE:HD12	0.82	1.35	10	9
1:E:61:ASP:O	1:E:117:LEU:HD13	0.82	1.73	4	1
1:B:108:VAL:HG11	1:B:136:ILE:CD1	0.82	2.05	9	1
1:E:104:ILE:HD11	1:E:184:ILE:HD11	0.82	1.52	6	1
1:F:90:ILE:HD11	1:F:137:VAL:CG2	0.82	2.05	12	1
1:F:43:VAL:HG12	1:F:65:ALA:CA	0.82	2.05	14	2
1:B:61:ASP:O	1:B:117:LEU:HD12	0.82	1.75	6	6
1:C:44:GLU:O	1:C:65:ALA:HB1	0.82	1.75	11	2
1:B:106:LEU:HD21	1:B:164:ILE:HD13	0.82	1.51	7	1
1:D:58:VAL:O	1:D:79:ILE:HG21	0.81	1.74	5	1
1:B:49:ALA:CB	1:B:64:LEU:HD13	0.81	2.03	2	1
1:E:104:ILE:HG21	1:E:145:VAL:HG11	0.81	1.49	6	3
1:B:43:VAL:HG11	1:B:80:ILE:HD13	0.81	1.52	2	1
1:C:50:ILE:HG21	1:C:62:THR:OG1	0.81	1.75	15	7
1:C:63:ILE:HG22	1:C:117:LEU:CD1	0.81	2.04	11	1
1:D:104:ILE:HG21	1:D:144:VAL:CG2	0.81	2.05	12	1
1:C:50:ILE:HD13	1:C:50:ILE:N	0.81	1.90	3	3

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:F:144:VAL:HG11	1:F:164:ILE:HD11	0.81	1.50	5	2
1:B:50:ILE:HD13	1:B:50:ILE:N	0.81	1.90	8	3
1:F:50:ILE:N	1:F:50:ILE:HD13	0.81	1.90	14	1
1:C:48:ARG:HB2	1:C:63:ILE:CA	0.81	2.04	14	9
1:C:104:ILE:HG21	1:C:145:VAL:HG11	0.81	1.50	4	2
1:B:43:VAL:HG21	1:B:64:LEU:HG	0.81	1.51	2	1
1:E:63:ILE:HD11	1:E:112:PRO:CG	0.81	2.06	5	1
1:C:165:ARG:HA	1:C:182:VAL:HG21	0.81	1.50	11	3
1:F:64:LEU:HD13	1:F:65:ALA:N	0.81	1.90	9	1
1:A:124:LEU:HD12	1:A:175:PHE:CE1	0.80	2.11	14	1
1:D:105:SER:O	1:D:184:ILE:HG21	0.80	1.76	5	6
1:D:108:VAL:HG23	1:D:137:VAL:HG12	0.80	1.52	2	1
1:B:102:VAL:CG2	1:B:150:ALA:HB2	0.80	2.06	5	2
1:A:62:THR:HG22	1:A:117:LEU:HD12	0.80	1.52	13	4
1:C:48:ARG:HB2	1:C:63:ILE:HB	0.80	1.51	13	7
1:E:102:VAL:HG22	1:E:153:LEU:CD1	0.80	2.07	8	1
1:B:50:ILE:HD12	1:B:50:ILE:N	0.80	1.92	15	10
1:A:108:VAL:O	1:A:182:VAL:HG13	0.80	1.76	3	1
1:B:50:ILE:HD13	1:B:80:ILE:HA	0.80	1.53	1	2
1:A:165:ARG:CG	1:A:182:VAL:HG11	0.80	2.07	7	4
1:C:50:ILE:HD12	1:C:50:ILE:N	0.80	1.92	6	9
1:B:44:GLU:O	1:B:65:ALA:HB1	0.80	1.76	14	5
1:C:177:LEU:HD22	1:C:179:LEU:HD23	0.80	1.54	11	1
1:D:108:VAL:HG22	1:D:168:LEU:HD11	0.79	1.52	6	1
1:B:63:ILE:CG2	1:B:117:LEU:HD13	0.79	2.07	3	1
1:A:132:VAL:HG13	1:A:175:PHE:CZ	0.79	2.11	11	3
1:C:124:LEU:HD21	1:C:128:TYR:CD2	0.79	2.12	14	1
1:C:114:ALA:CB	1:C:178:ILE:HD13	0.79	2.07	11	1
1:A:105:SER:O	1:A:184:ILE:HG23	0.79	1.77	8	2
1:F:50:ILE:HD13	1:F:50:ILE:N	0.79	1.92	3	5
1:F:50:ILE:HD13	1:F:80:ILE:HA	0.79	1.54	11	8
1:B:64:LEU:CB	1:B:80:ILE:HG21	0.79	2.07	11	11
1:B:50:ILE:HD13	1:B:50:ILE:H	0.79	1.37	13	3
1:A:112:PRO:CB	1:A:117:LEU:HD11	0.79	2.07	9	1
1:C:43:VAL:HG12	1:C:65:ALA:N	0.79	1.93	10	2
1:E:62:THR:O	1:E:63:ILE:HG23	0.79	1.77	13	8
1:F:49:ALA:CB	1:F:64:LEU:HD12	0.79	2.08	14	1
1:E:50:ILE:HD13	1:E:50:ILE:N	0.79	1.92	5	5
1:F:50:ILE:N	1:F:50:ILE:HD12	0.79	1.93	7	7
1:C:50:ILE:HD13	1:C:80:ILE:HA	0.79	1.54	12	7
1:C:62:THR:O	1:C:63:ILE:HG23	0.79	1.78	4	6

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:58:VAL:HG11	1:B:66:GLU:CG	0.79	2.08	15	1
1:B:49:ALA:CB	1:B:64:LEU:HD12	0.79	2.07	11	9
1:F:165:ARG:CG	1:F:182:VAL:HG21	0.79	2.07	9	1
1:B:48:ARG:HB3	1:B:64:LEU:N	0.79	1.92	1	2
1:D:104:ILE:HG21	1:D:145:VAL:CG2	0.79	2.08	14	1
1:F:90:ILE:HD11	1:F:137:VAL:HG22	0.78	1.55	12	1
1:A:50:ILE:HD11	1:A:80:ILE:HG22	0.78	1.55	9	2
1:F:91:SER:HA	1:F:187:LEU:HD21	0.78	1.55	2	1
1:B:64:LEU:N	1:B:80:ILE:HD13	0.78	1.93	7	2
1:D:90:ILE:HD11	1:D:186:GLU:HB2	0.78	1.55	11	1
1:C:65:ALA:O	1:C:66:GLU:HB2	0.78	1.78	10	3
1:E:50:ILE:HD12	1:E:50:ILE:N	0.78	1.93	13	10
1:B:55:ILE:HD13	1:C:68:LEU:HD22	0.78	1.53	9	1
1:F:50:ILE:HD12	1:F:62:THR:O	0.78	1.79	1	1
1:E:54:ARG:HB3	1:F:68:LEU:HD12	0.78	1.56	13	2
1:F:48:ARG:CB	1:F:63:ILE:HG23	0.78	2.08	7	1
1:C:43:VAL:HG12	1:C:65:ALA:CA	0.78	2.08	11	2
1:A:136:ILE:O	1:A:140:VAL:HG23	0.78	1.77	14	2
1:F:106:LEU:HD13	1:F:106:LEU:O	0.78	1.79	15	1
1:B:65:ALA:O	1:B:66:GLU:CB	0.78	2.31	15	5
1:C:50:ILE:HG21	1:C:62:THR:HB	0.78	1.54	15	2
1:F:104:ILE:HG22	1:F:141:LEU:CD2	0.77	2.07	1	1
1:D:54:ARG:O	1:D:55:ILE:HG22	0.77	1.79	2	1
1:F:50:ILE:CG2	1:F:117:LEU:HD21	0.77	2.10	3	1
1:F:49:ALA:HB1	1:F:70:PHE:CE1	0.77	2.13	8	1
1:E:49:ALA:HB1	1:E:70:PHE:CE2	0.77	2.14	9	3
1:D:121:TYR:O	1:D:123:ARG:N	0.77	2.17	11	1
1:F:160:VAL:HG12	1:F:164:ILE:HD11	0.77	1.52	13	2
1:C:141:LEU:O	1:C:145:VAL:HG23	0.77	1.79	10	5
1:C:49:ALA:HB1	1:C:70:PHE:CE1	0.77	2.15	8	1
1:F:49:ALA:C	1:F:50:ILE:HD12	0.77	1.99	4	8
1:A:104:ILE:HD11	1:A:153:LEU:HD11	0.77	1.57	9	2
1:F:160:VAL:HG12	1:F:164:ILE:CD1	0.77	2.09	13	1
1:F:47:HIS:CD2	1:F:63:ILE:HD12	0.77	2.14	14	1
1:A:63:ILE:CG1	1:A:117:LEU:HD22	0.77	2.09	15	1
1:E:50:ILE:HD11	1:E:80:ILE:HG23	0.77	1.55	4	1
1:B:124:LEU:HD22	1:B:176:SER:CB	0.77	2.08	6	1
1:C:48:ARG:CB	1:C:63:ILE:HG23	0.77	2.09	6	2
1:E:43:VAL:HG21	1:E:47:HIS:O	0.77	1.78	6	3
1:B:94:THR:HG23	1:B:145:VAL:HG21	0.77	1.57	3	1
1:C:62:THR:O	1:C:117:LEU:HD22	0.77	1.80	7	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:104:ILE:O	1:B:141:LEU:HD21	0.77	1.80	13	1
1:E:64:LEU:HD13	1:E:65:ALA:N	0.77	1.94	15	1
1:A:48:ARG:HB2	1:A:63:ILE:CA	0.76	2.11	6	13
1:B:148:PHE:CE2	1:B:153:LEU:HD12	0.76	2.15	2	1
1:A:165:ARG:HG3	1:A:182:VAL:HG12	0.76	1.57	12	1
1:F:117:LEU:HD13	1:F:118:PRO:N	0.76	1.94	3	1
1:C:106:LEU:HA	1:C:184:ILE:HG21	0.76	1.58	10	1
1:B:64:LEU:HD12	1:B:65:ALA:N	0.76	1.96	2	1
1:B:124:LEU:HD11	1:B:176:SER:OG	0.76	1.80	9	1
1:B:112:PRO:HB2	1:B:117:LEU:HD11	0.76	1.56	2	1
1:B:106:LEU:O	1:B:137:VAL:HG13	0.76	1.79	3	7
1:C:61:ASP:O	1:C:117:LEU:HD12	0.76	1.80	2	4
1:F:90:ILE:CD1	1:F:184:ILE:HG21	0.76	2.11	3	1
1:F:117:LEU:HD13	1:F:118:PRO:CD	0.76	2.11	3	1
1:C:49:ALA:C	1:C:50:ILE:HD12	0.76	2.00	13	7
1:A:129:GLU:CG	1:A:133:LEU:HD22	0.76	2.11	6	1
1:D:105:SER:OG	1:D:184:ILE:HD12	0.76	1.81	13	1
1:E:49:ALA:C	1:E:50:ILE:HD12	0.76	2.01	7	10
1:B:43:VAL:HG13	1:B:64:LEU:HG	0.76	1.54	8	10
1:A:50:ILE:HD11	1:A:80:ILE:HB	0.76	1.57	3	5
1:F:48:ARG:HB2	1:F:63:ILE:HG23	0.76	1.57	7	1
1:B:50:ILE:N	1:B:50:ILE:HD12	0.76	1.95	5	2
1:C:104:ILE:HD13	1:C:145:VAL:HG22	0.76	1.56	2	1
1:F:144:VAL:HG11	1:F:164:ILE:HG22	0.76	1.56	3	1
1:D:124:LEU:HD22	1:D:176:SER:CB	0.76	2.11	7	1
1:B:92:SER:CB	1:B:141:LEU:HD11	0.76	2.12	9	1
1:C:106:LEU:O	1:C:137:VAL:HG13	0.76	1.81	10	1
1:C:105:SER:O	1:C:184:ILE:HG21	0.75	1.81	13	1
1:E:72:ILE:N	1:E:73:PRO:CD	0.75	2.49	3	11
1:F:144:VAL:HG21	1:F:164:ILE:CD1	0.75	2.11	5	1
1:D:136:ILE:O	1:D:140:VAL:HG12	0.75	1.81	9	1
1:A:104:ILE:HG22	1:A:141:LEU:CD1	0.75	2.11	11	1
1:C:47:HIS:HB2	1:C:65:ALA:HB3	0.75	1.57	10	3
1:F:50:ILE:CG2	1:F:117:LEU:HD11	0.75	2.10	3	1
1:D:111:ARG:O	1:D:178:ILE:HG23	0.75	1.81	10	1
1:A:50:ILE:HD11	1:A:80:ILE:CB	0.75	2.11	3	5
1:D:50:ILE:HD11	1:D:80:ILE:CB	0.75	2.12	2	4
1:A:128:TYR:CD2	1:A:132:VAL:HG21	0.75	2.16	9	1
1:B:72:ILE:N	1:B:73:PRO:CD	0.75	2.50	3	6
1:A:50:ILE:HG21	1:A:62:THR:HB	0.75	1.56	15	4
1:F:106:LEU:HD13	1:F:106:LEU:N	0.75	1.97	3	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:E:104:ILE:O	1:E:141:LEU:HD22	0.75	1.82	4	2
1:C:117:LEU:HD12	1:C:117:LEU:O	0.75	1.82	7	1
1:C:144:VAL:HG11	1:C:164:ILE:CG1	0.75	2.10	11	1
1:C:61:ASP:O	1:C:62:THR:HG23	0.75	1.81	5	4
1:B:112:PRO:CB	1:B:117:LEU:HD11	0.75	2.11	2	1
1:C:62:THR:O	1:C:80:ILE:HA	0.75	1.80	11	2
1:B:80:ILE:HD13	1:B:80:ILE:O	0.75	1.81	3	4
1:B:102:VAL:HG22	1:B:150:ALA:CB	0.75	2.11	5	2
1:B:105:SER:O	1:B:184:ILE:HD12	0.74	1.81	15	3
1:E:102:VAL:CG1	1:E:104:ILE:HD11	0.74	2.12	8	1
1:E:140:VAL:O	1:E:144:VAL:HG23	0.74	1.82	14	8
1:D:50:ILE:HD12	1:D:50:ILE:H	0.74	1.40	6	2
1:D:106:LEU:HD22	1:D:164:ILE:CG2	0.74	2.12	11	1
1:F:62:THR:HG23	1:F:117:LEU:HB3	0.74	1.59	13	1
1:F:42:THR:HG22	1:F:68:LEU:HD13	0.74	1.59	15	1
1:F:50:ILE:HD11	1:F:80:ILE:CB	0.74	2.11	8	6
1:F:43:VAL:HG12	1:F:65:ALA:N	0.74	1.95	15	2
1:B:54:ARG:HB3	1:C:68:LEU:HD12	0.74	1.56	3	1
1:A:50:ILE:CG1	1:A:117:LEU:HD11	0.74	2.12	11	1
1:A:106:LEU:HD13	1:A:137:VAL:O	0.74	1.82	15	1
1:F:106:LEU:C	1:F:106:LEU:HD22	0.74	2.01	15	1
1:A:48:ARG:CB	1:A:64:LEU:N	0.74	2.51	12	14
1:A:50:ILE:HD11	1:A:80:ILE:CG2	0.74	2.12	9	6
1:B:49:ALA:C	1:B:50:ILE:HD12	0.74	2.03	11	3
1:A:104:ILE:HD12	1:A:145:VAL:CG2	0.74	2.11	13	2
1:B:106:LEU:HB2	1:B:141:LEU:HD13	0.74	1.59	8	1
1:A:47:HIS:HB2	1:A:65:ALA:HB3	0.74	1.58	9	1
1:E:50:ILE:HG21	1:E:62:THR:CG2	0.74	2.12	3	5
1:A:62:THR:O	1:A:63:ILE:HG23	0.74	1.82	4	6
1:B:62:THR:O	1:B:80:ILE:HA	0.74	1.83	9	11
1:A:150:ALA:O	1:A:153:LEU:HD23	0.74	1.82	3	1
1:F:62:THR:O	1:F:63:ILE:HG23	0.74	1.83	9	8
1:F:107:ARG:HG2	1:F:184:ILE:HG22	0.74	1.58	3	1
1:E:117:LEU:O	1:E:117:LEU:HD12	0.74	1.82	4	1
1:F:50:ILE:HD12	1:F:50:ILE:N	0.74	1.98	4	2
1:C:49:ALA:HB1	1:C:70:PHE:CE2	0.74	2.17	12	1
1:E:50:ILE:HD11	1:E:80:ILE:CB	0.74	2.13	14	4
1:D:108:VAL:HG11	1:D:133:LEU:CD1	0.74	2.11	13	1
1:D:49:ALA:C	1:D:50:ILE:HD12	0.74	2.02	14	7
1:A:49:ALA:C	1:A:50:ILE:HD12	0.73	2.04	5	7
1:A:50:ILE:HG21	1:A:62:THR:CG2	0.73	2.13	14	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:D:92:SER:CB	1:D:141:LEU:HD11	0.73	2.13	12	1
1:D:106:LEU:HD11	1:D:164:ILE:HB	0.73	1.58	14	1
1:C:44:GLU:C	1:C:65:ALA:HB1	0.73	2.03	2	2
1:C:63:ILE:HA	1:C:81:TYR:O	0.73	1.84	10	2
1:A:68:LEU:HD13	1:F:54:ARG:HB3	0.73	1.60	6	2
1:D:93:PRO:N	1:D:104:ILE:HG22	0.73	1.99	13	1
1:A:106:LEU:CB	1:A:184:ILE:HG22	0.73	2.13	4	2
1:C:50:ILE:HG13	1:C:117:LEU:HD21	0.73	1.58	12	2
1:C:107:ARG:HG2	1:C:184:ILE:HG22	0.73	1.59	10	1
1:F:42:THR:CG2	1:F:68:LEU:HD13	0.73	2.13	15	1
1:E:165:ARG:CG	1:E:182:VAL:HG11	0.73	2.13	1	3
1:F:104:ILE:HD11	1:F:153:LEU:CD1	0.73	2.09	5	1
1:C:50:ILE:HD12	1:C:50:ILE:H	0.73	1.43	11	2
1:D:116:GLU:OE1	1:D:178:ILE:HD11	0.73	1.84	3	1
1:C:48:ARG:HB2	1:C:63:ILE:HG23	0.73	1.57	6	2
1:F:111:ARG:O	1:F:178:ILE:HG23	0.73	1.83	10	1
1:E:144:VAL:HG11	1:E:164:ILE:HG22	0.73	1.58	13	1
1:B:48:ARG:HB2	1:B:63:ILE:CB	0.73	2.14	1	2
1:E:106:LEU:CB	1:E:184:ILE:HG22	0.73	2.14	9	2
1:F:48:ARG:HB3	1:F:63:ILE:C	0.73	2.04	7	3
1:F:63:ILE:HD11	1:F:83:ILE:HG23	0.73	1.61	11	1
1:D:117:LEU:N	1:D:118:PRO:HD2	0.73	1.98	11	15
1:B:144:VAL:HG21	1:B:164:ILE:HD11	0.73	1.58	11	2
1:F:50:ILE:HG21	1:F:117:LEU:HD21	0.73	1.59	3	1
1:C:140:VAL:O	1:C:144:VAL:HG23	0.73	1.83	13	8
1:A:50:ILE:HD11	1:A:80:ILE:HG23	0.73	1.61	7	3
1:E:165:ARG:HG2	1:E:182:VAL:HG11	0.73	1.59	1	1
1:A:62:THR:HG21	1:A:121:TYR:HB2	0.73	1.60	12	4
1:B:50:ILE:HG21	1:B:62:THR:OG1	0.72	1.82	5	7
1:A:140:VAL:O	1:A:144:VAL:HG23	0.72	1.83	5	10
1:C:48:ARG:CB	1:C:64:LEU:N	0.72	2.52	5	11
1:C:48:ARG:HB2	1:C:64:LEU:N	0.72	1.98	12	4
1:D:140:VAL:HG11	1:D:164:ILE:HD11	0.72	1.60	6	1
1:B:109:LEU:HD23	1:B:179:LEU:HD13	0.72	1.61	8	1
1:B:136:ILE:O	1:B:140:VAL:HG23	0.72	1.85	1	1
1:C:50:ILE:HD11	1:C:80:ILE:CB	0.72	2.14	5	5
1:E:124:LEU:HD12	1:E:176:SER:OG	0.72	1.83	4	2
1:D:52:PHE:CE2	1:D:58:VAL:HG22	0.72	2.20	6	1
1:E:102:VAL:HG11	1:E:149:ASN:ND2	0.72	2.00	8	1
1:C:63:ILE:HA	1:C:117:LEU:HD22	0.72	1.61	9	1
1:A:58:VAL:HG23	1:A:121:TYR:OH	0.72	1.85	1	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:C:117:LEU:N	1:C:118:PRO:CD	0.72	2.53	10	15
1:D:106:LEU:O	1:D:137:VAL:HG13	0.72	1.83	12	5
1:C:49:ALA:CB	1:C:64:LEU:HD12	0.72	2.14	2	3
1:E:25:LEU:HD21	1:F:23:LEU:HD12	0.72	1.62	2	1
1:B:50:ILE:CD1	1:B:80:ILE:HG22	0.72	2.15	6	2
1:B:94:THR:OG1	1:B:145:VAL:HG21	0.72	1.84	5	2
1:D:164:ILE:HD13	1:D:164:ILE:O	0.72	1.83	6	1
1:A:160:VAL:O	1:A:164:ILE:HG22	0.72	1.84	12	1
1:A:108:VAL:HG21	1:A:137:VAL:HB	0.72	1.61	15	1
1:A:141:LEU:O	1:A:145:VAL:HG23	0.72	1.85	13	7
1:C:104:ILE:O	1:C:141:LEU:HD11	0.72	1.84	10	2
1:E:141:LEU:O	1:E:145:VAL:HG23	0.72	1.83	9	5
1:D:104:ILE:HG13	1:D:145:VAL:HG12	0.72	1.61	2	1
1:D:117:LEU:N	1:D:118:PRO:CD	0.72	2.53	5	15
1:E:48:ARG:HB2	1:E:63:ILE:C	0.72	2.05	3	10
1:C:102:VAL:HG11	1:C:153:LEU:HD13	0.72	1.61	7	2
1:E:124:LEU:HD22	1:E:128:TYR:CG	0.72	2.20	13	1
1:B:49:ALA:HB2	1:B:64:LEU:CD1	0.72	2.10	2	1
1:D:151:SER:O	1:D:155:THR:HG23	0.72	1.85	3	2
1:E:50:ILE:HD11	1:E:80:ILE:HB	0.72	1.61	12	4
1:D:104:ILE:O	1:D:141:LEU:HD11	0.72	1.85	9	1
1:E:49:ALA:O	1:E:64:LEU:HD21	0.72	1.85	12	1
1:F:144:VAL:HG21	1:F:164:ILE:CG1	0.72	2.15	9	1
1:A:104:ILE:HD12	1:A:145:VAL:HG12	0.72	1.62	10	1
1:A:25:LEU:HD21	1:B:23:LEU:HD12	0.72	1.60	11	1
1:F:44:GLU:C	1:F:65:ALA:HB1	0.72	2.05	15	1
1:A:53:ASN:O	1:A:55:ILE:HG22	0.71	1.84	1	1
1:A:117:LEU:N	1:A:118:PRO:CD	0.71	2.53	9	15
1:B:49:ALA:HA	1:B:64:LEU:HB2	0.71	1.61	2	1
1:C:133:LEU:O	1:C:137:VAL:HG22	0.71	1.85	2	3
1:F:50:ILE:HG23	1:F:117:LEU:HD11	0.71	1.61	3	1
1:F:141:LEU:O	1:F:145:VAL:HG23	0.71	1.84	10	6
1:B:48:ARG:HG3	1:B:63:ILE:HG23	0.71	1.61	5	1
1:D:109:LEU:HD22	1:D:180:ASP:OD1	0.71	1.84	5	2
1:E:58:VAL:HG21	1:F:45:GLY:C	0.71	2.06	5	1
1:B:44:GLU:C	1:B:65:ALA:HB1	0.71	2.06	6	6
1:E:165:ARG:HG3	1:E:182:VAL:HG22	0.71	1.60	10	1
1:C:106:LEU:HD12	1:C:184:ILE:HG12	0.71	1.61	14	1
1:D:102:VAL:HB	1:D:150:ALA:HB2	0.71	1.62	4	2
1:A:50:ILE:HD13	1:A:80:ILE:CA	0.71	2.14	5	7
1:C:102:VAL:HG23	1:C:153:LEU:HD12	0.71	1.58	3	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:58:VAL:HG21	1:B:45:GLY:CA	0.71	2.15	6	2
1:E:165:ARG:HG3	1:E:182:VAL:HG11	0.71	1.59	6	1
1:D:165:ARG:HG2	1:D:182:VAL:HG11	0.71	1.62	15	1
1:D:111:ARG:O	1:D:178:ILE:HD13	0.71	1.84	2	1
1:C:160:VAL:HG22	1:C:164:ILE:CD1	0.71	2.14	3	2
1:A:83:ILE:HG22	1:A:112:PRO:HG2	0.71	1.63	13	2
1:B:137:VAL:O	1:B:141:LEU:HD13	0.71	1.84	3	1
1:E:105:SER:O	1:E:184:ILE:HG23	0.71	1.85	15	4
1:E:168:LEU:HD22	1:E:182:VAL:HG21	0.71	1.61	8	1
1:E:160:VAL:O	1:E:164:ILE:HG22	0.71	1.86	8	3
1:D:154:ILE:HD13	1:D:154:ILE:O	0.71	1.85	1	1
1:B:144:VAL:CG2	1:B:164:ILE:HD11	0.71	2.15	2	2
1:B:144:VAL:CG1	1:B:164:ILE:HD12	0.71	2.15	14	1
1:E:154:ILE:HD13	1:E:154:ILE:O	0.71	1.86	14	1
1:A:63:ILE:HG21	1:A:81:TYR:O	0.71	1.85	1	11
1:B:117:LEU:N	1:B:118:PRO:CD	0.71	2.53	7	15
1:F:48:ARG:CB	1:F:63:ILE:HB	0.71	2.16	3	8
1:B:102:VAL:CG2	1:B:153:LEU:HD13	0.71	2.15	3	1
1:E:48:ARG:HB2	1:E:64:LEU:N	0.71	2.01	4	2
1:C:102:VAL:CG1	1:C:145:VAL:HG13	0.71	2.15	5	1
1:C:63:ILE:HG22	1:C:117:LEU:HD13	0.71	1.63	15	2
1:E:65:ALA:HB2	1:E:115:GLN:NE2	0.71	2.01	14	1
1:F:62:THR:O	1:F:81:TYR:N	0.71	2.23	14	1
1:D:140:VAL:O	1:D:144:VAL:HG23	0.71	1.86	2	14
1:B:140:VAL:O	1:B:144:VAL:HG23	0.71	1.86	6	5
1:E:154:ILE:HG22	1:E:188:SER:OG	0.71	1.86	3	1
1:B:160:VAL:O	1:B:164:ILE:HG22	0.71	1.85	12	2
1:F:50:ILE:HG21	1:F:62:THR:HB	0.71	1.63	9	4
1:F:64:LEU:HD23	1:F:118:PRO:HG3	0.71	1.62	9	1
1:A:104:ILE:HD11	1:A:153:LEU:CD1	0.71	2.16	10	2
1:F:50:ILE:HG21	1:F:62:THR:HG23	0.71	1.62	12	1
1:E:106:LEU:CB	1:E:141:LEU:HD21	0.71	2.16	11	2
1:E:52:PHE:CE2	1:E:58:VAL:HG22	0.70	2.21	1	2
1:A:137:VAL:HG11	1:A:182:VAL:CG1	0.70	2.12	3	1
1:A:83:ILE:HD13	1:A:112:PRO:HD3	0.70	1.63	6	1
1:B:50:ILE:HD11	1:B:80:ILE:HB	0.70	1.63	8	3
1:F:140:VAL:O	1:F:144:VAL:HG22	0.70	1.85	13	1
1:A:50:ILE:HG21	1:A:62:THR:HG23	0.70	1.62	14	3
1:F:140:VAL:O	1:F:144:VAL:HG23	0.70	1.85	7	10
1:D:102:VAL:CG2	1:D:150:ALA:HB1	0.70	2.15	6	1
1:F:104:ILE:HG23	1:F:184:ILE:HD11	0.70	1.61	13	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:F:50:ILE:HD12	1:F:50:ILE:H	0.70	1.45	15	1
1:A:183:ALA:C	1:A:184:ILE:HD13	0.70	2.06	3	1
1:B:50:ILE:HD13	1:B:80:ILE:HG22	0.70	1.62	6	3
1:B:94:THR:CG2	1:B:145:VAL:HG11	0.70	2.16	4	2
1:B:104:ILE:HD12	1:B:145:VAL:HA	0.70	1.62	5	3
1:B:144:VAL:HG21	1:B:164:ILE:HG22	0.70	1.64	7	1
1:F:117:LEU:HD22	1:F:117:LEU:C	0.70	2.06	3	1
1:A:124:LEU:HD13	1:A:175:PHE:CE1	0.70	2.21	8	1
1:D:90:ILE:HG21	1:D:184:ILE:HB	0.70	1.62	11	1
1:C:63:ILE:H	1:C:117:LEU:CB	0.70	1.98	8	5
1:F:184:ILE:HD12	1:F:184:ILE:O	0.70	1.87	4	1
1:E:136:ILE:O	1:E:140:VAL:HG22	0.70	1.86	15	4
1:A:47:HIS:ND1	1:A:63:ILE:HD11	0.70	2.02	9	1
1:F:98:ASP:CG	1:F:150:ALA:HB2	0.70	2.06	7	3
1:B:48:ARG:CB	1:B:63:ILE:HG23	0.70	2.17	5	1
1:C:25:LEU:HD11	1:D:23:LEU:CD2	0.70	2.17	11	1
1:A:72:ILE:N	1:A:73:PRO:CD	0.70	2.54	3	10
1:E:48:ARG:CB	1:E:64:LEU:N	0.70	2.54	6	15
1:A:105:SER:O	1:A:184:ILE:HD12	0.70	1.85	9	3
1:A:64:LEU:HD12	1:A:118:PRO:HB3	0.70	1.64	15	1
1:F:117:LEU:N	1:F:118:PRO:CD	0.70	2.55	3	15
1:B:28:GLY:HA3	1:C:27:LEU:HD22	0.70	1.64	7	9
1:E:106:LEU:HB2	1:E:141:LEU:HD21	0.70	1.64	11	2
1:A:68:LEU:HD22	1:A:68:LEU:N	0.70	2.02	1	1
1:B:63:ILE:HG22	1:B:81:TYR:O	0.70	1.86	6	8
1:B:141:LEU:O	1:B:145:VAL:HG23	0.70	1.87	2	4
1:D:124:LEU:HD21	1:D:175:PHE:O	0.70	1.87	3	1
1:B:63:ILE:HD11	1:B:83:ILE:HG23	0.70	1.64	8	1
1:D:141:LEU:O	1:D:145:VAL:HG23	0.70	1.87	10	2
1:B:106:LEU:HD23	1:B:137:VAL:O	0.70	1.87	15	1
1:B:62:THR:HA	1:B:117:LEU:HB3	0.69	1.64	8	11
1:F:186:GLU:C	1:F:187:LEU:HD12	0.69	2.07	2	2
1:C:102:VAL:HG22	1:C:150:ALA:CB	0.69	2.13	13	2
1:B:48:ARG:CB	1:B:64:LEU:N	0.69	2.54	1	2
1:C:48:ARG:HB3	1:C:63:ILE:C	0.69	2.07	6	1
1:B:63:ILE:CD1	1:B:83:ILE:HG23	0.69	2.17	8	1
1:D:108:VAL:HG11	1:D:133:LEU:HD12	0.69	1.60	13	1
1:B:117:LEU:N	1:B:118:PRO:HD2	0.69	2.02	1	13
1:E:50:ILE:HG21	1:E:62:THR:HG23	0.69	1.62	15	6
1:C:132:VAL:HG22	1:C:175:PHE:CE1	0.69	2.22	12	1
1:F:80:ILE:HD13	1:F:80:ILE:O	0.69	1.85	15	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:D:77:TYR:CE2	1:D:79:ILE:HD11	0.69	2.22	15	1
1:F:48:ARG:CB	1:F:64:LEU:N	0.69	2.56	1	12
1:F:50:ILE:HD11	1:F:80:ILE:HB	0.69	1.65	14	6
1:B:45:GLY:HA2	1:B:66:GLU:HA	0.69	1.64	2	3
1:A:42:THR:HG23	1:A:69:HIS:O	0.69	1.86	1	1
1:B:49:ALA:HB1	1:B:70:PHE:CZ	0.69	2.23	2	3
1:A:27:LEU:HD22	1:F:28:GLY:HA3	0.69	1.64	6	9
1:A:50:ILE:N	1:A:50:ILE:CD1	0.69	2.54	10	15
1:F:72:ILE:N	1:F:73:PRO:CD	0.69	2.55	1	11
1:B:63:ILE:N	1:B:81:TYR:H	0.69	1.84	3	2
1:B:106:LEU:HD12	1:B:184:ILE:HG21	0.69	1.64	15	1
1:E:129:GLU:O	1:E:133:LEU:HD13	0.69	1.88	2	2
1:F:91:SER:CA	1:F:187:LEU:HD21	0.69	2.17	2	1
1:A:141:LEU:O	1:A:145:VAL:HG12	0.69	1.87	3	1
1:C:62:THR:HG22	1:C:117:LEU:HD12	0.69	1.63	5	1
1:E:58:VAL:HG11	1:F:45:GLY:O	0.69	1.87	6	2
1:C:102:VAL:CG1	1:C:153:LEU:HD13	0.69	2.17	7	1
1:A:71:ARG:O	1:A:72:ILE:HG23	0.69	1.88	15	1
1:C:58:VAL:HG21	1:D:45:GLY:O	0.69	1.88	1	1
1:C:117:LEU:N	1:C:118:PRO:HD2	0.69	2.03	5	15
1:D:108:VAL:HG22	1:D:168:LEU:HD21	0.69	1.64	1	2
1:C:160:VAL:HG22	1:C:164:ILE:HD11	0.69	1.63	3	1
1:E:179:LEU:HD13	1:E:180:ASP:N	0.69	2.03	3	1
1:D:106:LEU:CD1	1:D:168:LEU:HD13	0.69	2.17	5	1
1:F:106:LEU:HD21	1:F:164:ILE:HG21	0.69	1.62	11	1
1:F:62:THR:HG23	1:F:117:LEU:CB	0.69	2.17	13	1
1:D:50:ILE:HD13	1:D:80:ILE:CA	0.69	2.18	8	7
1:B:42:THR:HG22	1:B:69:HIS:O	0.69	1.87	5	1
1:C:137:VAL:HG12	1:C:141:LEU:CD1	0.69	2.18	6	2
1:E:77:TYR:OH	1:F:68:LEU:HD11	0.69	1.87	14	1
1:E:104:ILE:HD13	1:E:145:VAL:CG2	0.69	2.17	14	1
1:E:50:ILE:HD13	1:E:80:ILE:CA	0.69	2.17	7	10
1:B:50:ILE:HG12	1:B:62:THR:HB	0.69	1.65	11	9
1:A:129:GLU:O	1:A:133:LEU:HD23	0.69	1.87	13	1
1:A:106:LEU:O	1:A:137:VAL:HG13	0.69	1.88	14	1
1:B:48:ARG:HB3	1:B:64:LEU:C	0.68	2.09	5	2
1:C:72:ILE:N	1:C:73:PRO:CD	0.68	2.56	1	11
1:A:158:ALA:HA	1:F:102:VAL:HG12	0.68	1.64	3	1
1:D:102:VAL:HG22	1:D:150:ALA:HB2	0.68	1.65	12	2
1:D:116:GLU:C	1:D:118:PRO:HD2	0.68	2.08	11	4
1:D:184:ILE:O	1:D:184:ILE:HD12	0.68	1.89	6	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:D:136:ILE:O	1:D:140:VAL:HG23	0.68	1.88	13	3
1:F:132:VAL:O	1:F:136:ILE:HG22	0.68	1.88	11	2
1:C:164:ILE:HD13	1:C:164:ILE:O	0.68	1.87	8	1
1:C:144:VAL:HG11	1:C:164:ILE:CD1	0.68	2.18	9	1
1:D:106:LEU:HD11	1:D:137:VAL:HB	0.68	1.63	15	1
1:A:72:ILE:N	1:A:73:PRO:HD3	0.68	2.03	10	10
1:C:72:ILE:N	1:C:73:PRO:HD3	0.68	2.04	9	9
1:E:28:GLY:HA3	1:F:27:LEU:HD22	0.68	1.65	12	7
1:B:68:LEU:O	1:B:68:LEU:HD23	0.68	1.89	10	6
1:C:83:ILE:HD12	1:C:112:PRO:HG3	0.68	1.65	7	2
1:D:43:VAL:HG21	1:D:47:HIS:O	0.68	1.89	7	2
1:F:89:LYS:O	1:F:90:ILE:HD13	0.68	1.89	15	2
1:C:164:ILE:HG21	1:C:184:ILE:HD11	0.68	1.66	14	1
1:C:136:ILE:O	1:C:140:VAL:HG12	0.68	1.89	11	3
1:C:63:ILE:HG22	1:C:64:LEU:H	0.68	1.48	2	1
1:F:63:ILE:H	1:F:117:LEU:CB	0.68	2.00	5	8
1:A:68:LEU:HD23	1:F:54:ARG:HB3	0.68	1.64	9	1
1:C:43:VAL:HG13	1:C:64:LEU:HG	0.68	1.65	10	2
1:D:50:ILE:HD11	1:D:80:ILE:CG2	0.68	2.18	5	3
1:E:54:ARG:HB2	1:F:68:LEU:HD13	0.68	1.65	3	1
1:B:28:GLY:O	1:B:32:VAL:HG23	0.68	1.88	7	2
1:B:43:VAL:HG23	1:B:66:GLU:H	0.68	1.47	4	2
1:C:106:LEU:HD11	1:C:182:VAL:HG22	0.68	1.65	12	2
1:C:102:VAL:CG2	1:C:150:ALA:HB2	0.68	2.14	13	3
1:C:140:VAL:O	1:C:144:VAL:HG13	0.68	1.89	5	4
1:C:63:ILE:HG23	1:C:81:TYR:O	0.68	1.87	2	1
1:F:48:ARG:HG2	1:F:63:ILE:HB	0.68	1.65	2	1
1:B:25:LEU:CD2	1:C:23:LEU:HD23	0.68	2.18	6	1
1:A:43:VAL:HG23	1:A:66:GLU:H	0.68	1.47	9	1
1:D:68:LEU:N	1:D:68:LEU:HD22	0.68	2.02	10	1
1:F:90:ILE:HD12	1:F:184:ILE:CG2	0.68	2.16	3	1
1:F:102:VAL:CG1	1:F:153:LEU:HD13	0.68	2.19	7	1
1:E:50:ILE:HG21	1:E:62:THR:HB	0.68	1.64	14	3
1:C:108:VAL:HG21	1:C:133:LEU:CD1	0.68	2.19	2	1
1:B:111:ARG:HB2	1:B:179:LEU:HD12	0.68	1.64	8	2
1:C:93:PRO:HD2	1:D:158:ALA:HB2	0.68	1.63	11	1
1:C:136:ILE:O	1:C:140:VAL:HG23	0.68	1.88	13	1
1:D:43:VAL:HG11	1:D:47:HIS:O	0.67	1.88	10	2
1:C:42:THR:HG23	1:C:68:LEU:HA	0.67	1.64	12	1
1:A:106:LEU:CB	1:A:141:LEU:HD11	0.67	2.19	13	1
1:B:94:THR:HG21	1:B:145:VAL:HG21	0.67	1.66	15	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:C:50:ILE:HG12	1:C:62:THR:OG1	0.67	1.88	2	2
1:D:50:ILE:HG23	1:D:117:LEU:HD11	0.67	1.65	7	1
1:D:104:ILE:HD11	1:D:145:VAL:HG21	0.67	1.64	7	1
1:B:178:ILE:HD13	1:B:178:ILE:N	0.67	2.03	12	1
1:A:25:LEU:HD11	1:B:23:LEU:HD11	0.67	1.67	1	1
1:C:50:ILE:HG21	1:C:62:THR:HG23	0.67	1.65	14	2
1:E:106:LEU:HD11	1:E:137:VAL:CG1	0.67	2.20	5	1
1:C:136:ILE:O	1:C:140:VAL:HG22	0.67	1.88	15	3
1:A:112:PRO:HB3	1:A:117:LEU:HD11	0.67	1.63	9	1
1:D:179:LEU:HD23	1:D:180:ASP:N	0.67	2.05	15	1
1:A:148:PHE:CE1	1:A:160:VAL:HG22	0.67	2.25	1	1
1:B:129:GLU:O	1:B:133:LEU:HD12	0.67	1.89	1	1
1:E:117:LEU:N	1:E:118:PRO:CD	0.67	2.58	12	15
1:C:28:GLY:HA3	1:D:27:LEU:HD22	0.67	1.67	10	7
1:B:106:LEU:HB2	1:B:184:ILE:HD12	0.67	1.66	6	1
1:B:108:VAL:HG22	1:B:168:LEU:HD11	0.67	1.63	7	1
1:D:106:LEU:HD22	1:D:164:ILE:HG22	0.67	1.65	11	1
1:B:94:THR:HG23	1:B:145:VAL:CG2	0.67	2.18	3	1
1:C:108:VAL:CG1	1:C:133:LEU:HD23	0.67	2.20	7	1
1:C:50:ILE:N	1:C:50:ILE:CD1	0.67	2.56	5	14
1:C:62:THR:HG21	1:C:121:TYR:HB2	0.67	1.67	5	3
1:E:117:LEU:N	1:E:118:PRO:HD2	0.67	2.05	2	15
1:B:48:ARG:O	1:B:64:LEU:HA	0.67	1.90	13	13
1:F:68:LEU:HD22	1:F:68:LEU:N	0.67	2.05	2	1
1:B:124:LEU:HD12	1:B:176:SER:HB3	0.67	1.64	4	2
1:F:64:LEU:HD23	1:F:65:ALA:N	0.67	2.05	8	1
1:C:25:LEU:HD13	1:D:27:LEU:HD21	0.67	1.64	10	1
1:D:90:ILE:HG21	1:D:184:ILE:CB	0.67	2.19	11	1
1:A:48:ARG:CB	1:A:63:ILE:HB	0.67	2.20	3	9
1:E:25:LEU:HD13	1:F:27:LEU:HD21	0.67	1.65	1	2
1:A:136:ILE:HG23	1:A:171:ARG:CG	0.67	2.18	2	1
1:F:50:ILE:HD13	1:F:80:ILE:CA	0.67	2.20	7	8
1:F:53:ASN:O	1:F:55:ILE:HG22	0.67	1.90	3	1
1:A:48:ARG:O	1:A:63:ILE:C	0.67	2.33	9	1
1:A:104:ILE:O	1:A:141:LEU:HD11	0.67	1.89	6	3
1:B:62:THR:O	1:B:81:TYR:N	0.67	2.28	7	7
1:A:54:ARG:HB3	1:B:68:LEU:HD12	0.67	1.67	5	1
1:E:141:LEU:HD23	1:E:142:LYS:N	0.67	2.05	9	3
1:A:28:GLY:HA3	1:B:27:LEU:HD22	0.67	1.67	10	8
1:C:108:VAL:HG23	1:C:137:VAL:HG22	0.67	1.66	1	1
1:F:106:LEU:O	1:F:137:VAL:HG13	0.67	1.90	4	3

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:F:117:LEU:N	1:F:118:PRO:HD2	0.67	2.05	15	14
1:C:68:LEU:HD23	1:C:68:LEU:O	0.67	1.90	2	3
1:C:157:ARG:O	1:C:160:VAL:HG12	0.67	1.90	2	4
1:D:140:VAL:HG21	1:D:168:LEU:HD11	0.67	1.66	2	1
1:B:50:ILE:HD11	1:B:80:ILE:HG22	0.67	1.65	13	2
1:B:148:PHE:CE1	1:B:160:VAL:HG22	0.67	2.25	12	2
1:E:72:ILE:N	1:E:73:PRO:HD3	0.67	2.05	13	9
1:D:144:VAL:HG11	1:D:164:ILE:HD11	0.67	1.65	5	1
1:F:136:ILE:HG21	1:F:171:ARG:HB2	0.67	1.67	6	1
1:D:109:LEU:O	1:D:179:LEU:HD22	0.67	1.90	7	1
1:B:83:ILE:HD12	1:B:112:PRO:CG	0.67	2.19	13	1
1:C:28:GLY:O	1:C:32:VAL:HG23	0.66	1.90	4	6
1:B:90:ILE:HD12	1:B:90:ILE:N	0.66	2.04	6	4
1:C:50:ILE:CD1	1:C:80:ILE:HG22	0.66	2.20	2	4
1:E:88:ARG:NH2	1:E:133:LEU:HD21	0.66	2.05	11	1
1:B:140:VAL:O	1:B:144:VAL:HG22	0.66	1.90	14	4
1:C:77:TYR:HB3	1:C:79:ILE:HD11	0.66	1.66	2	1
1:B:45:GLY:N	1:B:65:ALA:HB1	0.66	2.05	9	5
1:C:124:LEU:O	1:C:124:LEU:HD13	0.66	1.91	4	2
1:D:41:PHE:CZ	1:D:72:ILE:HD11	0.66	2.25	5	1
1:D:68:LEU:O	1:D:68:LEU:HD23	0.66	1.90	5	1
1:F:106:LEU:HD23	1:F:107:ARG:N	0.66	2.04	5	1
1:C:62:THR:H	1:C:117:LEU:HD13	0.66	1.48	7	1
1:C:105:SER:O	1:C:184:ILE:HD12	0.66	1.89	9	1
1:A:25:LEU:HA	1:B:27:LEU:HD21	0.66	1.67	6	7
1:D:50:ILE:N	1:D:50:ILE:CD1	0.66	2.55	4	14
1:E:144:VAL:HG21	1:E:164:ILE:CD1	0.66	2.20	3	2
1:F:28:GLY:O	1:F:32:VAL:HG23	0.66	1.90	3	5
1:C:50:ILE:HD13	1:C:80:ILE:CA	0.66	2.21	13	7
1:E:63:ILE:HD11	1:E:112:PRO:HG3	0.66	1.65	5	2
1:A:63:ILE:H	1:A:117:LEU:CB	0.66	2.02	2	8
1:A:117:LEU:N	1:A:118:PRO:HD2	0.66	2.06	1	15
1:A:102:VAL:CG2	1:A:150:ALA:HB2	0.66	2.18	7	2
1:C:137:VAL:HG12	1:C:141:LEU:HD12	0.66	1.66	6	2
1:E:111:ARG:O	1:E:178:ILE:HD11	0.66	1.91	12	1
1:C:137:VAL:O	1:C:141:LEU:HD13	0.66	1.90	14	1
1:C:165:ARG:CA	1:C:182:VAL:HG11	0.66	2.20	5	5
1:B:59:GLN:O	1:B:79:ILE:HG21	0.66	1.89	14	3
1:B:63:ILE:HG22	1:B:64:LEU:H	0.66	1.50	2	1
1:D:72:ILE:N	1:D:73:PRO:CD	0.66	2.58	14	10
1:C:62:THR:HA	1:C:117:LEU:HB3	0.66	1.68	11	5

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:F:117:LEU:HD13	1:F:118:PRO:HD3	0.66	1.68	3	1
1:E:160:VAL:O	1:E:164:ILE:HD12	0.66	1.90	5	1
1:F:105:SER:O	1:F:184:ILE:HD12	0.66	1.91	7	4
1:A:106:LEU:CD1	1:A:137:VAL:HG13	0.66	2.20	2	1
1:D:54:ARG:HB3	1:E:68:LEU:HD13	0.66	1.66	5	1
1:F:106:LEU:HD11	1:F:164:ILE:HG21	0.66	1.67	7	3
1:D:153:LEU:CD2	1:D:160:VAL:HG21	0.66	2.20	10	1
1:A:149:ASN:O	1:A:153:LEU:HD12	0.66	1.90	11	2
1:F:50:ILE:HG21	1:F:62:THR:CG2	0.66	2.20	12	1
1:B:25:LEU:HA	1:C:27:LEU:HD21	0.66	1.68	12	7
1:C:144:VAL:HG21	1:C:164:ILE:HG12	0.66	1.68	15	2
1:B:63:ILE:HA	1:B:81:TYR:O	0.66	1.91	12	11
1:B:106:LEU:HD23	1:B:107:ARG:N	0.66	2.04	11	1
1:A:132:VAL:HG21	1:A:175:PHE:CD2	0.66	2.26	13	1
1:E:25:LEU:HA	1:F:27:LEU:HD21	0.66	1.68	2	6
1:D:50:ILE:HD11	1:D:80:ILE:HB	0.66	1.67	2	4
1:E:63:ILE:HD11	1:E:112:PRO:HB3	0.66	1.68	2	1
1:C:48:ARG:CD	1:C:48:ARG:N	0.66	2.59	7	3
1:B:108:VAL:HG12	1:B:168:LEU:HD11	0.66	1.68	9	1
1:E:106:LEU:HB3	1:E:184:ILE:HG22	0.66	1.67	9	1
1:D:92:SER:HB2	1:D:141:LEU:HD11	0.66	1.66	12	1
1:C:124:LEU:HD13	1:C:175:PHE:CE1	0.66	2.25	15	1
1:C:108:VAL:HG11	1:C:133:LEU:CD1	0.66	2.20	2	2
1:D:43:VAL:HG21	1:D:49:ALA:HB2	0.66	1.67	2	3
1:E:111:ARG:CB	1:E:179:LEU:HD23	0.66	2.21	3	1
1:F:62:THR:HG23	1:F:121:TYR:HB2	0.66	1.68	7	2
1:E:165:ARG:CB	1:E:182:VAL:HG21	0.66	2.20	6	1
1:B:64:LEU:HB2	1:B:80:ILE:HG21	0.66	1.66	11	1
1:E:165:ARG:HA	1:E:182:VAL:HG11	0.66	1.66	14	3
1:E:58:VAL:HG11	1:F:45:GLY:C	0.66	2.09	12	1
1:F:68:LEU:HD23	1:F:68:LEU:O	0.66	1.90	13	1
1:F:48:ARG:HB2	1:F:63:ILE:C	0.65	2.11	8	6
1:A:50:ILE:CG1	1:A:62:THR:O	0.65	2.44	5	1
1:C:50:ILE:HD11	1:C:80:ILE:HB	0.65	1.68	15	4
1:A:41:PHE:CG	1:A:71:ARG:HB2	0.65	2.26	14	4
1:F:48:ARG:N	1:F:48:ARG:CD	0.65	2.59	11	2
1:C:104:ILE:CG1	1:C:145:VAL:HG22	0.65	2.21	13	1
1:D:25:LEU:HA	1:E:27:LEU:HD21	0.65	1.68	3	8
1:F:43:VAL:HG11	1:F:47:HIS:O	0.65	1.91	1	2
1:D:160:VAL:O	1:D:164:ILE:HG22	0.65	1.91	7	2
1:B:104:ILE:HG12	1:B:153:LEU:HD21	0.65	1.67	5	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:50:ILE:HD12	1:B:62:THR:O	0.65	1.90	13	1
1:F:44:GLU:O	1:F:65:ALA:HB1	0.65	1.91	15	1
1:B:107:ARG:CZ	1:B:109:LEU:HD11	0.65	2.21	2	2
1:F:50:ILE:HG23	1:F:117:LEU:HD21	0.65	1.67	2	1
1:A:62:THR:CA	1:A:117:LEU:HB3	0.65	2.21	5	2
1:A:45:GLY:N	1:A:65:ALA:HB1	0.65	2.06	9	1
1:C:50:ILE:CD1	1:C:63:ILE:O	0.65	2.44	10	2
1:C:102:VAL:HB	1:C:150:ALA:HB2	0.65	1.66	10	1
1:C:64:LEU:N	1:C:80:ILE:HD13	0.65	2.06	10	2
1:B:63:ILE:HG22	1:B:117:LEU:HD13	0.65	1.66	3	2
1:A:50:ILE:HD13	1:A:50:ILE:H	0.65	1.50	9	1
1:F:106:LEU:HD22	1:F:107:ARG:N	0.65	2.06	15	1
1:A:106:LEU:HD12	1:A:184:ILE:HG12	0.65	1.67	12	3
1:E:63:ILE:H	1:E:117:LEU:CB	0.65	2.04	9	11
1:C:65:ALA:O	1:C:66:GLU:CB	0.65	2.44	10	2
1:B:50:ILE:CD1	1:B:63:ILE:O	0.65	2.45	8	10
1:C:124:LEU:HD23	1:C:176:SER:CB	0.65	2.21	4	1
1:D:41:PHE:CE1	1:D:72:ILE:HD11	0.65	2.27	5	1
1:D:104:ILE:HD11	1:D:145:VAL:CG2	0.65	2.22	7	1
1:D:105:SER:HG	1:D:184:ILE:HD12	0.65	1.49	13	1
1:B:62:THR:HG21	1:B:121:TYR:HB2	0.65	1.69	1	2
1:F:103:ASN:O	1:F:153:LEU:HD21	0.65	1.92	5	1
1:C:104:ILE:HG22	1:C:141:LEU:CD1	0.65	2.21	8	1
1:D:124:LEU:HD21	1:D:128:TYR:CD2	0.65	2.27	10	1
1:D:136:ILE:HG13	1:D:137:VAL:HG23	0.65	1.69	13	1
1:A:136:ILE:HG23	1:A:171:ARG:HG2	0.65	1.66	2	2
1:C:43:VAL:HG23	1:C:66:GLU:H	0.65	1.49	2	1
1:D:55:ILE:HD13	1:D:56:GLY:N	0.65	2.05	3	1
1:C:43:VAL:HG21	1:C:47:HIS:O	0.65	1.92	4	3
1:F:62:THR:HG21	1:F:121:TYR:HB2	0.65	1.68	8	3
1:E:106:LEU:HD12	1:E:184:ILE:CG1	0.65	2.22	7	3
1:E:54:ARG:HB3	1:F:68:LEU:HD13	0.65	1.69	10	2
1:E:124:LEU:HD12	1:E:176:SER:CB	0.65	2.22	5	2
1:F:61:ASP:O	1:F:62:THR:HG23	0.65	1.91	15	2
1:A:106:LEU:HD12	1:A:141:LEU:HB2	0.65	1.69	15	1
1:A:27:LEU:HD13	1:A:27:LEU:O	0.65	1.92	2	1
1:F:50:ILE:HD13	1:F:80:ILE:CB	0.65	2.21	7	5
1:F:60:GLN:HA	1:F:79:ILE:HG22	0.65	1.68	7	1
1:F:18:GLY:O	1:F:22:ALA:HB2	0.64	1.92	1	2
1:D:89:LYS:HB2	1:D:184:ILE:HD11	0.64	1.66	2	1
1:E:104:ILE:HD13	1:E:104:ILE:N	0.64	2.07	2	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:107:ARG:O	1:A:108:VAL:HG23	0.64	1.92	3	1
1:C:109:LEU:CB	1:C:182:VAL:HG22	0.64	2.22	10	1
1:E:50:ILE:N	1:E:50:ILE:CD1	0.64	2.58	5	15
1:D:94:THR:HB	1:D:145:VAL:HG21	0.64	1.68	5	2
1:D:166:ARG:O	1:D:169:THR:HG22	0.64	1.93	11	1
1:F:104:ILE:HD13	1:F:104:ILE:H	0.64	1.50	14	1
1:C:48:ARG:CD	1:C:63:ILE:HG23	0.64	2.22	15	1
1:D:28:GLY:O	1:D:32:VAL:HG23	0.64	1.92	6	6
1:E:63:ILE:HG21	1:E:81:TYR:O	0.64	1.93	12	6
1:C:50:ILE:HD11	1:C:80:ILE:HG23	0.64	1.69	1	1
1:B:43:VAL:HG11	1:B:80:ILE:CD1	0.64	2.22	2	1
1:C:62:THR:O	1:C:81:TYR:N	0.64	2.31	2	2
1:B:62:THR:O	1:B:63:ILE:O	0.64	2.14	3	2
1:B:49:ALA:HB1	1:B:64:LEU:HD12	0.64	1.68	6	8
1:F:104:ILE:HG21	1:F:145:VAL:CG2	0.64	2.21	4	1
1:E:117:LEU:HD13	1:E:120:MET:CE	0.64	2.23	5	1
1:C:54:ARG:HB2	1:D:68:LEU:HD13	0.64	1.68	7	1
1:C:69:HIS:O	1:C:70:PHE:CB	0.64	2.46	11	1
1:D:54:ARG:HB3	1:E:68:LEU:HD12	0.64	1.67	13	2
1:F:48:ARG:CD	1:F:63:ILE:HB	0.64	2.22	11	1
1:E:189:PHE:CD1	1:F:187:LEU:HD13	0.64	2.27	12	1
1:A:157:ARG:HG3	1:A:184:ILE:HD11	0.64	1.69	4	1
1:A:102:VAL:HG22	1:A:150:ALA:CB	0.64	2.18	7	1
1:A:58:VAL:HG11	1:B:66:GLU:HG2	0.64	1.70	15	1
1:A:124:LEU:HD23	1:A:124:LEU:O	0.64	1.93	2	1
1:C:106:LEU:HB3	1:C:141:LEU:HD21	0.64	1.69	8	1
1:A:50:ILE:CD1	1:A:63:ILE:O	0.64	2.46	9	1
1:A:58:VAL:HG11	1:B:45:GLY:C	0.64	2.13	10	1
1:C:25:LEU:HA	1:D:27:LEU:HD21	0.64	1.69	4	9
1:B:124:LEU:HD13	1:B:128:TYR:CD2	0.64	2.27	5	1
1:F:136:ILE:HD11	1:F:175:PHE:CE1	0.64	2.27	9	1
1:A:124:LEU:HD12	1:A:176:SER:CB	0.64	2.22	4	1
1:A:124:LEU:HD21	1:A:128:TYR:HB2	0.64	1.70	11	2
1:B:58:VAL:HG21	1:C:45:GLY:CA	0.64	2.22	10	2
1:A:136:ILE:HG23	1:A:171:ARG:HB3	0.64	1.70	5	1
1:E:58:VAL:HG11	1:F:46:GLY:HA2	0.64	1.67	5	1
1:A:132:VAL:O	1:A:136:ILE:HG22	0.64	1.92	11	2
1:B:50:ILE:N	1:B:50:ILE:CD1	0.64	2.60	12	14
1:E:48:ARG:HB3	1:E:64:LEU:C	0.64	2.13	3	12
1:B:157:ARG:O	1:B:160:VAL:HG22	0.64	1.93	11	4
1:B:61:ASP:O	1:B:62:THR:HG23	0.64	1.93	3	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:104:ILE:O	1:A:141:LEU:HD21	0.64	1.92	4	2
1:B:98:ASP:OD2	1:B:102:VAL:HG21	0.64	1.93	5	1
1:A:184:ILE:HD11	1:A:186:GLU:OE1	0.64	1.92	6	1
1:B:25:LEU:HD23	1:C:27:LEU:HD21	0.64	1.70	7	1
1:C:129:GLU:O	1:C:133:LEU:HD13	0.64	1.93	13	1
1:C:106:LEU:CD1	1:C:164:ILE:HG21	0.64	2.22	1	1
1:E:50:ILE:HD13	1:E:80:ILE:CB	0.64	2.23	7	7
1:D:136:ILE:HD12	1:D:171:ARG:HG2	0.64	1.67	8	1
1:A:124:LEU:HD12	1:A:175:PHE:CZ	0.64	2.26	14	1
1:D:106:LEU:HD12	1:D:168:LEU:CD1	0.63	2.19	5	2
1:E:52:PHE:CZ	1:E:58:VAL:HG22	0.63	2.28	1	1
1:F:50:ILE:N	1:F:50:ILE:CD1	0.63	2.61	8	15
1:B:136:ILE:O	1:B:140:VAL:HG22	0.63	1.93	8	3
1:C:50:ILE:HG21	1:C:117:LEU:CD2	0.63	2.23	7	1
1:C:132:VAL:HG13	1:C:175:PHE:CE1	0.63	2.29	9	1
1:F:144:VAL:HG11	1:F:164:ILE:CG2	0.63	2.22	3	1
1:A:165:ARG:CA	1:A:182:VAL:HG21	0.63	2.23	10	4
1:D:137:VAL:HG12	1:D:138:ASN:N	0.63	2.07	11	1
1:B:106:LEU:HD21	1:B:182:VAL:HG13	0.63	1.68	13	1
1:F:50:ILE:CD1	1:F:63:ILE:O	0.63	2.46	14	1
1:B:48:ARG:O	1:B:64:LEU:CA	0.63	2.47	2	11
1:B:64:LEU:HB3	1:B:80:ILE:HG21	0.63	1.70	3	10
1:B:43:VAL:CG1	1:B:65:ALA:N	0.63	2.62	8	8
1:C:58:VAL:HG21	1:D:45:GLY:HA2	0.63	1.70	7	1
1:C:114:ALA:HB3	1:C:178:ILE:HG21	0.63	1.69	11	1
1:D:165:ARG:HG3	1:D:182:VAL:HG21	0.63	1.71	11	1
1:C:124:LEU:HD13	1:C:176:SER:OG	0.63	1.93	12	1
1:F:49:ALA:HB1	1:F:64:LEU:HD12	0.63	1.68	14	1
1:A:106:LEU:HD23	1:A:107:ARG:N	0.63	2.08	15	1
1:D:118:PRO:O	1:D:121:TYR:CD1	0.63	2.52	1	1
1:F:43:VAL:HG11	1:F:49:ALA:HB2	0.63	1.71	8	3
1:B:124:LEU:HD22	1:B:176:SER:HB3	0.63	1.69	6	1
1:C:58:VAL:HG13	1:C:59:GLN:N	0.63	2.08	12	2
1:C:140:VAL:O	1:C:144:VAL:HG22	0.63	1.93	12	2
1:D:104:ILE:O	1:D:141:LEU:HD22	0.63	1.93	1	1
1:F:136:ILE:O	1:F:140:VAL:HG23	0.63	1.92	2	1
1:E:90:ILE:HD12	1:E:106:LEU:HG	0.63	1.71	9	1
1:B:88:ARG:HG2	1:B:133:LEU:HD21	0.63	1.68	12	1
1:D:107:ARG:O	1:D:182:VAL:HG13	0.63	1.94	12	1
1:A:48:ARG:HB2	1:A:63:ILE:C	0.63	2.14	12	13
1:C:50:ILE:HG21	1:C:62:THR:CG2	0.63	2.23	14	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:C:43:VAL:HG11	1:C:49:ALA:HB2	0.63	1.70	13	3
1:F:63:ILE:N	1:F:81:TYR:H	0.63	1.91	15	1
1:B:50:ILE:HD13	1:B:80:ILE:CA	0.63	2.24	5	2
1:F:104:ILE:HG22	1:F:141:LEU:HD23	0.63	1.68	1	1
1:B:43:VAL:HG23	1:B:65:ALA:HA	0.63	1.70	2	1
1:B:108:VAL:CG1	1:B:133:LEU:HD23	0.63	2.23	4	1
1:E:62:THR:HG22	1:E:117:LEU:C	0.63	2.14	7	2
1:B:179:LEU:HD23	1:B:180:ASP:N	0.63	2.09	8	1
1:E:105:SER:O	1:E:184:ILE:HD12	0.63	1.93	12	2
1:D:92:SER:C	1:D:104:ILE:HG22	0.63	2.14	13	1
1:D:72:ILE:N	1:D:73:PRO:HD3	0.63	2.08	7	7
1:E:28:GLY:O	1:E:32:VAL:HG23	0.63	1.94	8	4
1:F:62:THR:HG22	1:F:117:LEU:C	0.63	2.14	4	4
1:B:50:ILE:HD11	1:B:80:ILE:CB	0.63	2.24	7	3
1:C:80:ILE:HD13	1:C:80:ILE:O	0.63	1.94	11	1
1:E:25:LEU:HD23	1:F:23:LEU:HD12	0.63	1.71	11	1
1:F:106:LEU:CD2	1:F:164:ILE:HG21	0.63	2.23	11	1
1:F:128:TYR:O	1:F:132:VAL:HG22	0.63	1.93	11	1
1:B:64:LEU:HD23	1:B:64:LEU:O	0.63	1.94	8	3
1:D:92:SER:CB	1:D:141:LEU:HD21	0.63	2.24	6	1
1:C:105:SER:HB2	1:C:184:ILE:HD13	0.63	1.69	10	1
1:C:69:HIS:O	1:C:70:PHE:HB2	0.63	1.94	11	1
1:A:23:LEU:HD12	1:A:24:LYS:N	0.63	2.09	13	2
1:B:124:LEU:HD21	1:B:128:TYR:CD1	0.62	2.28	2	1
1:C:129:GLU:O	1:C:133:LEU:HD12	0.62	1.93	5	2
1:A:46:GLY:O	1:A:47:HIS:ND1	0.62	2.32	9	1
1:C:48:ARG:HB3	1:C:63:ILE:CA	0.62	2.24	12	1
1:B:104:ILE:HD12	1:B:160:VAL:HG11	0.62	1.71	13	1
1:A:107:ARG:HB2	1:A:184:ILE:HD13	0.62	1.70	14	1
1:A:172:ALA:CB	1:A:179:LEU:HD13	0.62	2.23	15	1
1:A:106:LEU:HD13	1:A:141:LEU:CD1	0.62	2.23	3	1
1:D:98:ASP:OD2	1:D:150:ALA:HB2	0.62	1.94	3	1
1:E:136:ILE:O	1:E:140:VAL:HG23	0.62	1.93	4	2
1:F:120:MET:O	1:F:124:LEU:N	0.62	2.32	5	10
1:B:106:LEU:HD21	1:B:168:LEU:HD23	0.62	1.70	5	1
1:A:28:GLY:O	1:A:32:VAL:HG23	0.62	1.94	12	3
1:B:70:PHE:O	1:B:72:ILE:N	0.62	2.33	9	3
1:D:124:LEU:HD22	1:D:176:SER:HB3	0.62	1.70	7	1
1:F:102:VAL:HG11	1:F:153:LEU:HD13	0.62	1.70	10	2
1:B:62:THR:O	1:B:81:TYR:CB	0.62	2.47	8	1
1:E:61:ASP:O	1:E:117:LEU:HD12	0.62	1.94	8	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:47:HIS:CD2	1:B:63:ILE:HG21	0.62	2.28	2	1
1:D:117:LEU:N	1:D:117:LEU:HD22	0.62	2.08	12	3
1:E:153:LEU:HG	1:E:160:VAL:HG21	0.62	1.72	5	2
1:D:50:ILE:HG23	1:D:117:LEU:CD1	0.62	2.23	7	1
1:F:149:ASN:O	1:F:153:LEU:HD12	0.62	1.94	10	2
1:D:106:LEU:HA	1:D:184:ILE:HG21	0.62	1.72	12	1
1:E:102:VAL:HG22	1:E:150:ALA:CB	0.62	2.24	12	3
1:C:24:LYS:O	1:D:27:LEU:HD11	0.62	1.94	9	1
1:D:43:VAL:CG2	1:D:67:GLY:N	0.62	2.63	9	1
1:A:104:ILE:HD12	1:A:145:VAL:CG1	0.62	2.23	10	1
1:B:148:PHE:CE2	1:B:163:LEU:HD13	0.62	2.30	12	1
1:A:121:TYR:HA	1:A:124:LEU:HD23	0.62	1.72	15	1
1:C:64:LEU:HD13	1:C:80:ILE:HG21	0.62	1.69	10	2
1:D:144:VAL:HG21	1:D:164:ILE:CD1	0.62	2.25	3	2
1:A:157:ARG:O	1:A:160:VAL:HG12	0.62	1.94	5	1
1:A:157:ARG:O	1:A:160:VAL:HG22	0.62	1.93	15	4
1:E:184:ILE:HD13	1:E:184:ILE:C	0.62	2.14	8	1
1:A:63:ILE:HD12	1:A:63:ILE:O	0.62	1.94	11	1
1:F:64:LEU:O	1:F:64:LEU:HD23	0.62	1.95	14	1
1:C:117:LEU:N	1:C:117:LEU:HD22	0.62	2.10	2	3
1:A:165:ARG:HB3	1:A:182:VAL:HG11	0.62	1.70	2	1
1:D:106:LEU:HD21	1:D:168:LEU:HD22	0.62	1.71	4	3
1:B:136:ILE:HD11	1:B:171:ARG:HB3	0.62	1.72	5	1
1:A:89:LYS:O	1:A:90:ILE:HD13	0.62	1.95	7	2
1:B:45:GLY:O	1:B:66:GLU:HB2	0.62	1.94	3	2
1:B:94:THR:CG2	1:B:145:VAL:HG21	0.62	2.24	15	2
1:D:43:VAL:CG1	1:D:49:ALA:HB2	0.62	2.25	12	5
1:F:140:VAL:O	1:F:144:VAL:HG12	0.62	1.95	9	3
1:C:53:ASN:OD1	1:C:55:ILE:HG23	0.62	1.95	12	1
1:F:47:HIS:HB2	1:F:65:ALA:HB3	0.62	1.72	14	1
1:F:104:ILE:HG21	1:F:145:VAL:HG11	0.62	1.72	15	1
1:A:62:THR:N	1:A:81:TYR:HB2	0.62	2.09	7	13
1:D:107:ARG:HB2	1:D:184:ILE:HD13	0.62	1.71	4	2
1:A:63:ILE:HA	1:A:81:TYR:O	0.62	1.95	9	1
1:F:63:ILE:HA	1:F:117:LEU:HD22	0.62	1.69	11	1
1:E:64:LEU:HD21	1:E:118:PRO:CG	0.62	2.25	1	1
1:B:23:LEU:HD12	1:B:24:LYS:N	0.62	2.10	2	1
1:F:124:LEU:HD13	1:F:175:PHE:CE2	0.62	2.30	6	1
1:B:50:ILE:HG21	1:B:62:THR:CG2	0.62	2.25	7	1
1:C:39:SER:O	1:C:40:VAL:HG23	0.62	1.95	8	1
1:E:104:ILE:HG23	1:E:186:GLU:OE1	0.62	1.95	14	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:F:124:LEU:HD11	1:F:177:LEU:CD1	0.62	2.24	15	1
1:C:43:VAL:HG12	1:C:64:LEU:HD11	0.62	1.71	2	1
1:E:144:VAL:HG21	1:E:164:ILE:HD13	0.62	1.72	3	2
1:E:28:GLY:HA3	1:F:27:LEU:HD23	0.62	1.72	5	1
1:C:48:ARG:HB2	1:C:63:ILE:CG2	0.62	2.25	6	2
1:E:49:ALA:O	1:E:64:LEU:HD12	0.62	1.95	6	2
1:B:64:LEU:HD13	1:B:80:ILE:CG2	0.62	2.25	15	2
1:B:168:LEU:HD22	1:B:182:VAL:HG13	0.62	1.70	10	1
1:D:106:LEU:HA	1:D:184:ILE:HG22	0.62	1.72	10	1
1:F:153:LEU:HD22	1:F:160:VAL:HG21	0.62	1.69	11	1
1:B:124:LEU:HD21	1:B:128:TYR:CD2	0.62	2.30	14	1
1:E:165:ARG:CB	1:E:182:VAL:HG11	0.61	2.24	2	2
1:B:64:LEU:HD13	1:B:80:ILE:HG21	0.61	1.72	4	8
1:E:140:VAL:O	1:E:144:VAL:HG13	0.61	1.95	5	1
1:A:25:LEU:HD21	1:B:23:LEU:HD22	0.61	1.70	7	1
1:C:63:ILE:N	1:C:81:TYR:H	0.61	1.93	10	1
1:A:150:ALA:O	1:A:154:ILE:HG22	0.61	1.95	15	1
1:F:59:GLN:OE1	1:F:79:ILE:HD13	0.61	1.95	15	1
1:C:121:TYR:CG	1:C:122:GLN:N	0.61	2.67	9	11
1:F:117:LEU:N	1:F:117:LEU:HD22	0.61	2.11	1	1
1:C:97:LYS:CE	1:C:145:VAL:HG22	0.61	2.24	3	1
1:C:137:VAL:HG22	1:C:171:ARG:NH1	0.61	2.09	3	1
1:B:144:VAL:HG21	1:B:164:ILE:CG2	0.61	2.25	7	1
1:F:120:MET:HE1	1:F:124:LEU:HD22	0.61	1.71	12	1
1:A:50:ILE:CD1	1:A:80:ILE:HG22	0.61	2.24	9	4
1:B:63:ILE:HG21	1:B:81:TYR:O	0.61	1.95	1	1
1:F:72:ILE:N	1:F:73:PRO:HD3	0.61	2.10	5	8
1:F:48:ARG:HB2	1:F:63:ILE:CG2	0.61	2.25	7	4
1:B:42:THR:OG1	1:B:68:LEU:HD22	0.61	1.94	8	1
1:F:63:ILE:CG1	1:F:117:LEU:HD13	0.61	2.25	8	1
1:A:94:THR:CG2	1:A:145:VAL:HG11	0.61	2.26	11	1
1:E:106:LEU:CD2	1:E:141:LEU:HD12	0.61	2.24	13	1
1:B:50:ILE:HD13	1:B:80:ILE:CB	0.61	2.26	5	2
1:C:144:VAL:HG11	1:C:164:ILE:HG12	0.61	1.71	11	2
1:B:50:ILE:HG12	1:B:62:THR:CB	0.61	2.25	14	10
1:D:41:PHE:CG	1:D:71:ARG:HB2	0.61	2.30	10	3
1:C:50:ILE:CG1	1:C:117:LEU:HD11	0.61	2.24	12	2
1:C:83:ILE:HD13	1:C:83:ILE:N	0.61	2.10	11	1
1:C:124:LEU:HD13	1:C:175:PHE:HB2	0.61	1.72	14	1
1:E:48:ARG:CB	1:E:63:ILE:HB	0.61	2.21	15	11
1:D:120:MET:O	1:D:124:LEU:N	0.61	2.33	2	9

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:D:28:GLY:HA3	1:E:27:LEU:HD22	0.61	1.71	15	7
1:D:106:LEU:CD2	1:D:137:VAL:HG11	0.61	2.14	8	1
1:C:48:ARG:O	1:C:64:LEU:HA	0.61	1.94	11	3
1:E:33:ALA:HA	1:E:36:VAL:CG2	0.61	2.25	3	1
1:A:68:LEU:HD23	1:F:54:ARG:CB	0.61	2.25	9	1
1:B:26:LEU:HD13	1:B:26:LEU:O	0.61	1.95	11	1
1:A:177:LEU:C	1:A:178:ILE:HD12	0.61	2.16	2	1
1:D:104:ILE:HG21	1:D:145:VAL:HG21	0.61	1.73	3	3
1:B:106:LEU:HD13	1:B:107:ARG:N	0.61	2.10	4	1
1:E:117:LEU:N	1:E:117:LEU:HD22	0.61	2.11	12	3
1:C:64:LEU:HD23	1:C:115:GLN:CB	0.61	2.24	8	1
1:F:63:ILE:HG13	1:F:117:LEU:HD13	0.61	1.72	8	1
1:C:62:THR:O	1:C:63:ILE:O	0.61	2.19	10	1
1:B:106:LEU:HD11	1:B:164:ILE:HG23	0.61	1.72	11	1
1:A:64:LEU:HD21	1:A:118:PRO:CD	0.61	2.26	14	1
1:F:106:LEU:CA	1:F:184:ILE:HG22	0.61	2.26	14	1
1:C:63:ILE:O	1:C:64:LEU:CB	0.61	2.48	3	1
1:F:72:ILE:N	1:F:73:PRO:HD2	0.61	2.10	3	4
1:B:45:GLY:H	1:B:65:ALA:HB1	0.61	1.54	4	2
1:E:106:LEU:HD11	1:E:137:VAL:HG13	0.61	1.71	5	1
1:F:50:ILE:CG1	1:F:117:LEU:HD11	0.61	2.25	11	1
1:C:25:LEU:HD13	1:C:25:LEU:O	0.61	1.96	12	1
1:F:160:VAL:CG1	1:F:164:ILE:HD11	0.61	2.26	13	1
1:D:111:ARG:HB2	1:D:179:LEU:HD12	0.61	1.72	15	1
1:B:121:TYR:CG	1:B:122:GLN:N	0.61	2.69	7	7
1:C:27:LEU:O	1:C:27:LEU:HD23	0.61	1.96	6	2
1:C:41:PHE:CG	1:C:71:ARG:HB3	0.61	2.30	15	10
1:F:58:VAL:O	1:F:58:VAL:HG13	0.61	1.96	14	2
1:B:47:HIS:HB2	1:B:65:ALA:HB3	0.61	1.71	12	11
1:B:42:THR:O	1:B:43:VAL:O	0.61	2.18	9	8
1:B:129:GLU:HA	1:B:133:LEU:HD13	0.61	1.72	9	1
1:D:153:LEU:HD11	1:D:160:VAL:CG2	0.61	2.26	15	1
1:B:64:LEU:O	1:B:65:ALA:HB2	0.61	1.96	6	11
1:D:133:LEU:O	1:D:137:VAL:HG22	0.61	1.95	5	3
1:C:184:ILE:HG23	1:C:184:ILE:O	0.61	1.96	3	4
1:B:63:ILE:C	1:B:80:ILE:HB	0.61	2.17	11	2
1:F:120:MET:O	1:F:124:LEU:HD13	0.61	1.96	11	1
1:B:109:LEU:HD13	1:B:110:SER:N	0.61	2.11	12	1
1:A:64:LEU:HD11	1:A:118:PRO:HG3	0.61	1.73	14	1
1:A:58:VAL:HG21	1:B:66:GLU:HG3	0.61	1.73	15	1
1:C:70:PHE:O	1:C:72:ILE:N	0.60	2.34	2	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:D:142:LYS:O	1:D:145:VAL:HG22	0.60	1.95	2	1
1:A:136:ILE:CD1	1:A:137:VAL:HG13	0.60	2.20	3	1
1:A:83:ILE:HD13	1:A:112:PRO:CD	0.60	2.25	6	1
1:D:144:VAL:HG21	1:D:164:ILE:HG12	0.60	1.73	6	2
1:E:104:ILE:CD1	1:E:184:ILE:HD11	0.60	2.24	6	1
1:B:136:ILE:O	1:B:140:VAL:HG12	0.60	1.96	10	1
1:D:71:ARG:C	1:D:72:ILE:HD12	0.60	2.16	3	2
1:D:104:ILE:HD13	1:D:105:SER:N	0.60	2.11	10	2
1:C:54:ARG:HB3	1:D:68:LEU:HD13	0.60	1.72	4	2
1:A:62:THR:CB	1:A:117:LEU:HB3	0.60	2.26	5	7
1:A:124:LEU:HD13	1:A:124:LEU:C	0.60	2.17	6	1
1:E:141:LEU:O	1:E:145:VAL:HG13	0.60	1.95	6	2
1:B:92:SER:HB2	1:B:141:LEU:HD11	0.60	1.73	15	2
1:C:57:GLY:O	1:C:58:VAL:HG13	0.60	1.96	11	2
1:F:121:TYR:CG	1:F:122:GLN:N	0.60	2.69	15	6
1:C:47:HIS:CD2	1:C:63:ILE:HG21	0.60	2.30	2	1
1:C:50:ILE:HD13	1:C:80:ILE:CB	0.60	2.26	13	6
1:C:120:MET:CE	1:C:124:LEU:HD13	0.60	2.26	11	1
1:A:49:ALA:CA	1:A:50:ILE:HD13	0.60	2.26	1	7
1:F:148:PHE:CD2	1:F:160:VAL:HG23	0.60	2.30	1	1
1:D:54:ARG:HB2	1:E:68:LEU:HD13	0.60	1.73	2	3
1:B:54:ARG:CB	1:C:68:LEU:HD12	0.60	2.26	3	1
1:E:62:THR:N	1:E:81:TYR:HB2	0.60	2.12	5	10
1:F:43:VAL:HG21	1:F:47:HIS:O	0.60	1.96	7	7
1:A:47:HIS:HB2	1:A:65:ALA:CB	0.60	2.26	9	1
1:E:129:GLU:HA	1:E:133:LEU:HD13	0.60	1.74	9	2
1:A:104:ILE:CD1	1:A:153:LEU:HD11	0.60	2.25	10	1
1:E:68:LEU:HD23	1:E:68:LEU:O	0.60	1.97	13	1
1:F:109:LEU:O	1:F:179:LEU:HD13	0.60	1.96	15	1
1:E:102:VAL:CG2	1:E:150:ALA:HB2	0.60	2.26	1	2
1:B:63:ILE:HG23	1:B:81:TYR:O	0.60	1.96	2	1
1:B:79:ILE:HG23	1:B:79:ILE:O	0.60	1.96	3	3
1:C:48:ARG:NE	1:C:63:ILE:HD12	0.60	2.11	7	1
1:A:64:LEU:HD13	1:A:115:GLN:O	0.60	1.97	11	1
1:B:45:GLY:CA	1:B:65:ALA:HB1	0.60	2.27	11	2
1:E:104:ILE:HD13	1:E:104:ILE:H	0.60	1.57	2	1
1:F:94:THR:HG22	1:F:145:VAL:HG11	0.60	1.73	4	1
1:F:136:ILE:HG21	1:F:171:ARG:CB	0.60	2.26	6	1
1:A:62:THR:O	1:A:63:ILE:HB	0.60	1.96	9	1
1:E:157:ARG:HB3	1:E:184:ILE:HD11	0.60	1.74	9	1
1:D:104:ILE:HG22	1:D:141:LEU:HD11	0.60	1.74	11	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:C:25:LEU:HA	1:D:27:LEU:HD11	0.60	1.74	12	1
1:D:132:VAL:HG21	1:D:175:PHE:CE2	0.60	2.31	12	1
1:E:58:VAL:HG11	1:F:45:GLY:CA	0.60	2.27	12	1
1:E:129:GLU:HA	1:E:133:LEU:HD12	0.60	1.73	12	1
1:A:106:LEU:HG	1:A:140:VAL:HG11	0.60	1.73	14	1
1:B:106:LEU:N	1:B:141:LEU:HD11	0.60	2.11	3	1
1:C:62:THR:HG22	1:C:117:LEU:C	0.60	2.16	13	3
1:E:104:ILE:HD12	1:E:145:VAL:CG2	0.60	2.26	1	1
1:C:97:LYS:HE2	1:C:145:VAL:HG22	0.60	1.74	3	1
1:A:43:VAL:HG12	1:A:64:LEU:CG	0.60	2.27	9	1
1:E:128:TYR:OH	1:E:177:LEU:HD21	0.60	1.97	15	1
1:C:63:ILE:HG21	1:C:81:TYR:O	0.60	1.97	7	6
1:E:54:ARG:O	1:F:68:LEU:HD21	0.60	1.97	2	1
1:D:165:ARG:HA	1:D:182:VAL:HG21	0.60	1.73	8	3
1:E:50:ILE:HG21	1:E:62:THR:HG21	0.60	1.73	3	1
1:E:165:ARG:O	1:E:169:THR:HG22	0.60	1.97	3	1
1:F:90:ILE:O	1:F:105:SER:CB	0.60	2.50	12	4
1:B:133:LEU:O	1:B:137:VAL:HG22	0.60	1.97	13	2
1:F:136:ILE:O	1:F:140:VAL:HG22	0.60	1.96	11	3
1:A:25:LEU:HD11	1:B:23:LEU:HD23	0.60	1.72	9	1
1:C:168:LEU:HD22	1:C:182:VAL:HB	0.60	1.72	11	1
1:B:112:PRO:HB3	1:B:117:LEU:HD21	0.60	1.74	15	1
1:E:43:VAL:HG11	1:E:47:HIS:O	0.60	1.97	13	2
1:E:48:ARG:CB	1:E:63:ILE:C	0.60	2.69	3	14
1:C:64:LEU:O	1:C:65:ALA:HB2	0.60	1.96	2	3
1:B:72:ILE:N	1:B:73:PRO:HD3	0.60	2.12	13	2
1:C:168:LEU:CG	1:C:182:VAL:HG11	0.60	2.27	3	1
1:F:90:ILE:HG23	1:F:105:SER:HB3	0.60	1.71	3	1
1:C:62:THR:HG23	1:C:121:TYR:HB2	0.60	1.72	13	3
1:D:132:VAL:O	1:D:136:ILE:HG22	0.60	1.96	4	2
1:D:58:VAL:O	1:D:58:VAL:HG12	0.60	1.97	5	1
1:C:109:LEU:O	1:C:179:LEU:HD22	0.60	1.97	11	1
1:A:27:LEU:HD21	1:F:25:LEU:HA	0.59	1.73	1	9
1:C:59:GLN:HG3	1:C:79:ILE:HG21	0.59	1.74	2	1
1:D:68:LEU:HD13	1:D:68:LEU:C	0.59	2.17	3	2
1:E:24:LYS:O	1:F:27:LEU:HD21	0.59	1.96	5	1
1:E:140:VAL:O	1:E:144:VAL:HG22	0.59	1.96	5	1
1:A:41:PHE:CE1	1:A:72:ILE:HD11	0.59	2.32	10	1
1:F:43:VAL:CG1	1:F:65:ALA:N	0.59	2.65	14	2
1:C:165:ARG:HA	1:C:182:VAL:HG11	0.59	1.73	4	5
1:A:103:ASN:O	1:A:104:ILE:HD13	0.59	1.97	2	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:104:ILE:HG22	1:A:106:LEU:HD23	0.59	1.73	2	1
1:B:64:LEU:HB3	1:B:80:ILE:CB	0.59	2.27	9	12
1:E:121:TYR:CG	1:E:122:GLN:N	0.59	2.69	4	2
1:B:106:LEU:HD22	1:B:184:ILE:CG2	0.59	2.27	4	1
1:C:58:VAL:HG21	1:D:45:GLY:CA	0.59	2.27	7	1
1:D:160:VAL:HG12	1:D:164:ILE:CD1	0.59	2.27	11	2
1:A:165:ARG:CG	1:A:182:VAL:HG12	0.59	2.25	12	1
1:B:63:ILE:H	1:B:117:LEU:CB	0.59	2.10	1	2
1:C:63:ILE:O	1:C:64:LEU:HB2	0.59	1.97	3	2
1:D:132:VAL:HG22	1:D:175:PHE:CE2	0.59	2.32	3	1
1:D:55:ILE:O	1:D:55:ILE:HG23	0.59	1.97	15	4
1:B:165:ARG:HA	1:B:182:VAL:HG21	0.59	1.72	8	2
1:C:41:PHE:CG	1:C:71:ARG:HB2	0.59	2.32	6	3
1:D:89:LYS:C	1:D:90:ILE:HD12	0.59	2.17	14	2
1:A:96:SER:OG	1:A:145:VAL:HG12	0.59	1.98	13	2
1:A:78:PRO:C	1:A:79:ILE:HD12	0.59	2.17	10	1
1:D:72:ILE:O	1:D:72:ILE:HG22	0.59	1.97	10	1
1:A:58:VAL:HG11	1:B:66:GLU:HG3	0.59	1.72	15	1
1:F:165:ARG:HA	1:F:182:VAL:HG21	0.59	1.74	5	4
1:A:27:LEU:HD23	1:F:25:LEU:HD22	0.59	1.75	2	1
1:F:93:PRO:O	1:F:94:THR:HG23	0.59	1.97	3	1
1:B:117:LEU:HG	1:B:118:PRO:HD3	0.59	1.73	9	3
1:B:132:VAL:O	1:B:136:ILE:HG22	0.59	1.98	5	1
1:B:83:ILE:HD12	1:B:112:PRO:HG2	0.59	1.72	13	1
1:C:79:ILE:HD13	1:C:79:ILE:N	0.59	2.11	13	1
1:C:128:TYR:N	1:C:128:TYR:CD2	0.59	2.70	1	2
1:B:42:THR:O	1:B:43:VAL:C	0.59	2.40	3	5
1:B:43:VAL:HG12	1:B:64:LEU:HD11	0.59	1.75	6	2
1:B:50:ILE:HG22	1:B:59:GLN:OE1	0.59	1.97	10	3
1:F:104:ILE:O	1:F:141:LEU:HD11	0.59	1.97	10	4
1:F:124:LEU:HD13	1:F:175:PHE:CD2	0.59	2.33	6	1
1:F:133:LEU:O	1:F:137:VAL:HG22	0.59	1.97	6	2
1:F:133:LEU:O	1:F:137:VAL:HG13	0.59	1.98	8	2
1:E:43:VAL:HG11	1:E:49:ALA:HB2	0.59	1.74	9	4
1:A:102:VAL:HG11	1:A:153:LEU:HD13	0.59	1.75	8	1
1:D:121:TYR:O	1:D:124:LEU:N	0.59	2.24	11	1
1:F:109:LEU:O	1:F:179:LEU:HD22	0.59	1.98	15	2
1:F:104:ILE:HD13	1:F:104:ILE:N	0.59	2.12	14	1
1:A:172:ALA:HB2	1:A:179:LEU:HD13	0.59	1.72	15	1
1:C:48:ARG:HB2	1:C:63:ILE:C	0.59	2.17	5	6
1:D:121:TYR:CG	1:D:122:GLN:N	0.59	2.71	6	8

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:133:LEU:O	1:A:137:VAL:HG23	0.59	1.98	7	6
1:B:47:HIS:O	1:B:65:ALA:O	0.59	2.19	3	3
1:C:58:VAL:HG23	1:C:122:GLN:OE1	0.59	1.96	3	1
1:B:43:VAL:HG21	1:B:64:LEU:CG	0.59	2.26	2	1
1:F:62:THR:HA	1:F:117:LEU:HB3	0.59	1.74	14	4
1:D:43:VAL:HG23	1:D:66:GLU:H	0.59	1.58	9	2
1:F:106:LEU:HD11	1:F:164:ILE:CG2	0.59	2.28	5	1
1:F:136:ILE:HD11	1:F:171:ARG:HB3	0.59	1.74	5	1
1:F:136:ILE:HD11	1:F:171:ARG:CG	0.59	2.27	5	1
1:E:136:ILE:O	1:E:140:VAL:HG12	0.59	1.97	6	1
1:A:94:THR:HB	1:A:145:VAL:HG11	0.59	1.75	9	2
1:A:25:LEU:HD13	1:B:27:LEU:HD21	0.59	1.73	10	1
1:B:106:LEU:HD22	1:B:164:ILE:HD11	0.59	1.74	12	1
1:F:106:LEU:HD12	1:F:184:ILE:HG13	0.59	1.75	6	3
1:A:50:ILE:HD12	1:A:63:ILE:HA	0.59	1.75	15	2
1:E:62:THR:HG23	1:E:112:PRO:HA	0.59	1.74	4	1
1:A:184:ILE:HG23	1:A:184:ILE:O	0.59	1.98	5	2
1:F:105:SER:O	1:F:184:ILE:HG23	0.59	1.98	15	2
1:F:63:ILE:HG13	1:F:117:LEU:HD22	0.59	1.72	8	1
1:C:50:ILE:HD13	1:C:50:ILE:H	0.59	1.55	10	1
1:C:4:ASN:O	1:C:8:LEU:HD23	0.59	1.98	14	1
1:B:138:ASN:HA	1:B:141:LEU:HD21	0.59	1.74	1	1
1:C:62:THR:N	1:C:81:TYR:HB2	0.59	2.13	14	10
1:E:182:VAL:O	1:E:182:VAL:HG13	0.59	1.98	4	5
1:C:157:ARG:O	1:C:184:ILE:HG21	0.59	1.97	3	2
1:E:62:THR:O	1:E:117:LEU:HD22	0.59	1.98	4	1
1:D:48:ARG:N	1:D:48:ARG:CD	0.59	2.66	8	2
1:E:104:ILE:N	1:E:104:ILE:HD12	0.59	2.12	14	3
1:F:50:ILE:HD13	1:F:50:ILE:H	0.59	1.57	14	1
1:F:63:ILE:HG22	1:F:81:TYR:O	0.59	1.97	14	1
1:D:4:ASN:O	1:D:8:LEU:HD13	0.59	1.98	1	1
1:E:184:ILE:HG23	1:E:184:ILE:O	0.59	1.97	8	6
1:F:62:THR:N	1:F:81:TYR:HB2	0.59	2.13	1	10
1:B:106:LEU:HD13	1:B:164:ILE:HG21	0.59	1.72	6	3
1:C:177:LEU:O	1:C:178:ILE:HG23	0.59	1.97	10	2
1:A:165:ARG:HB2	1:A:182:VAL:HG11	0.59	1.74	8	2
1:A:45:GLY:H	1:A:65:ALA:HB1	0.59	1.56	9	1
1:C:42:THR:O	1:C:43:VAL:O	0.59	2.21	11	2
1:A:124:LEU:HD12	1:A:176:SER:OG	0.59	1.98	12	1
1:D:140:VAL:O	1:D:144:VAL:HG13	0.59	1.98	12	1
1:A:137:VAL:O	1:A:140:VAL:HG22	0.59	1.96	15	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:C:64:LEU:CB	1:C:80:ILE:HG21	0.58	2.28	10	3
1:D:114:ALA:HB1	1:D:115:GLN:NE2	0.58	2.13	2	1
1:C:72:ILE:HG22	1:C:72:ILE:O	0.58	1.98	4	3
1:F:104:ILE:CD1	1:F:153:LEU:HD11	0.58	2.11	5	1
1:D:104:ILE:CD1	1:D:145:VAL:HG23	0.58	2.22	6	1
1:D:109:LEU:O	1:D:179:LEU:HD13	0.58	1.98	7	1
1:A:141:LEU:O	1:A:144:VAL:HG22	0.58	1.98	12	1
1:B:33:ALA:HA	1:B:36:VAL:CG2	0.58	2.28	14	1
1:B:63:ILE:HG22	1:B:117:LEU:CD1	0.58	2.28	14	1
1:D:163:LEU:HD23	1:D:163:LEU:O	0.58	1.99	3	1
1:B:92:SER:HB3	1:B:141:LEU:HD11	0.58	1.75	9	1
1:A:72:ILE:HG23	1:A:73:PRO:HD2	0.58	1.73	12	1
1:A:109:LEU:O	1:A:179:LEU:HD22	0.58	1.96	12	1
1:B:117:LEU:N	1:B:117:LEU:HD22	0.58	2.12	8	8
1:A:165:ARG:HA	1:A:182:VAL:HG11	0.58	1.73	13	3
1:C:59:GLN:O	1:C:79:ILE:HG21	0.58	1.98	6	1
1:B:47:HIS:CD2	1:B:63:ILE:HD12	0.58	2.33	7	1
1:B:117:LEU:H	1:B:117:LEU:HD22	0.58	1.57	7	1
1:E:102:VAL:HG13	1:E:153:LEU:HD22	0.58	1.74	9	1
1:C:63:ILE:H	1:C:117:LEU:HD13	0.58	1.57	11	1
1:D:136:ILE:O	1:D:140:VAL:HG22	0.58	1.97	11	2
1:A:63:ILE:HG13	1:A:117:LEU:HD22	0.58	1.73	15	1
1:E:154:ILE:HD12	1:E:189:PHE:CE2	0.58	2.34	15	1
1:A:117:LEU:N	1:A:117:LEU:HD22	0.58	2.11	5	5
1:F:63:ILE:H	1:F:117:LEU:HG	0.58	1.58	1	1
1:F:144:VAL:HG21	1:F:164:ILE:HG12	0.58	1.76	13	3
1:A:106:LEU:CD2	1:A:141:LEU:HD12	0.58	2.28	2	1
1:C:50:ILE:CD1	1:C:50:ILE:N	0.58	2.66	2	1
1:F:50:ILE:HG13	1:F:79:ILE:O	0.58	1.99	14	2
1:A:141:LEU:O	1:A:141:LEU:HD13	0.58	1.99	4	1
1:C:90:ILE:O	1:C:105:SER:CB	0.58	2.52	12	3
1:B:48:ARG:HB2	1:B:63:ILE:HG23	0.58	1.73	5	1
1:D:50:ILE:CD1	1:D:50:ILE:N	0.58	2.64	5	1
1:B:109:LEU:CB	1:B:182:VAL:HG22	0.58	2.29	11	1
1:B:108:VAL:HG21	1:B:136:ILE:HG23	0.58	1.75	14	1
1:F:133:LEU:O	1:F:137:VAL:HG23	0.58	1.99	14	4
1:A:104:ILE:HD11	1:A:141:LEU:HD22	0.58	1.75	3	1
1:F:106:LEU:HD22	1:F:106:LEU:O	0.58	1.98	3	1
1:A:132:VAL:HG13	1:A:175:PHE:CE2	0.58	2.34	11	1
1:B:133:LEU:O	1:B:137:VAL:HG12	0.58	1.99	12	1
1:B:102:VAL:HG21	1:B:150:ALA:CB	0.58	2.29	13	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:108:VAL:HG21	1:A:137:VAL:CB	0.58	2.28	15	1
1:B:72:ILE:HG22	1:B:76:GLN:CB	0.58	2.27	15	1
1:F:62:THR:O	1:F:63:ILE:O	0.58	2.22	15	1
1:A:165:ARG:HA	1:A:182:VAL:HG21	0.58	1.75	7	5
1:F:168:LEU:CD2	1:F:182:VAL:HG22	0.58	2.28	1	1
1:C:64:LEU:HB3	1:C:80:ILE:CB	0.58	2.28	11	3
1:D:52:PHE:CD1	1:D:58:VAL:HG12	0.58	2.33	2	1
1:A:90:ILE:HD11	1:A:137:VAL:HG11	0.58	1.73	4	1
1:D:102:VAL:HG21	1:D:150:ALA:HB1	0.58	1.75	6	1
1:C:62:THR:HG22	1:C:117:LEU:O	0.58	1.99	8	2
1:D:53:ASN:ND2	1:D:55:ILE:HD12	0.58	2.13	9	1
1:D:140:VAL:HG11	1:D:168:LEU:CD2	0.58	2.29	9	1
1:F:50:ILE:HG13	1:F:117:LEU:HD21	0.58	1.73	11	1
1:E:94:THR:HG21	1:E:142:LYS:HD3	0.58	1.76	14	1
1:E:94:THR:O	1:E:102:VAL:HG22	0.58	1.98	15	1
1:A:102:VAL:HG12	1:A:104:ILE:HD11	0.58	1.74	1	1
1:B:168:LEU:HD23	1:B:182:VAL:HG21	0.58	1.75	7	2
1:F:48:ARG:CB	1:F:63:ILE:C	0.58	2.72	13	10
1:A:58:VAL:HG21	1:B:45:GLY:HA2	0.58	1.73	6	1
1:B:52:PHE:O	1:B:77:TYR:N	0.58	2.36	15	4
1:B:55:ILE:HG23	1:B:55:ILE:O	0.58	1.99	10	2
1:B:129:GLU:HG3	1:B:133:LEU:HD12	0.58	1.75	7	1
1:D:18:GLY:O	1:D:22:ALA:HB2	0.58	1.98	13	1
1:A:165:ARG:CA	1:A:182:VAL:HG11	0.58	2.29	4	5
1:D:72:ILE:N	1:D:73:PRO:HD2	0.58	2.13	2	5
1:C:104:ILE:HD13	1:C:145:VAL:CG2	0.58	2.28	2	1
1:D:43:VAL:CG2	1:D:49:ALA:HB2	0.58	2.28	2	2
1:C:48:ARG:CB	1:C:63:ILE:HB	0.58	2.27	13	7
1:D:104:ILE:HD13	1:D:144:VAL:HG12	0.58	1.76	5	1
1:F:48:ARG:HB2	1:F:63:ILE:CG1	0.58	2.29	7	1
1:B:62:THR:HA	1:B:117:LEU:HB2	0.58	1.76	9	2
1:B:178:ILE:HD13	1:B:178:ILE:H	0.58	1.58	12	1
1:E:59:GLN:O	1:E:79:ILE:HG21	0.58	1.99	9	2
1:E:120:MET:O	1:E:124:LEU:N	0.58	2.36	14	11
1:B:106:LEU:HB2	1:B:141:LEU:HD12	0.58	1.76	4	2
1:D:58:VAL:O	1:D:58:VAL:HG22	0.58	1.99	2	1
1:E:117:LEU:N	1:E:117:LEU:CD2	0.58	2.66	5	3
1:B:124:LEU:HD22	1:B:176:SER:HB2	0.58	1.75	6	1
1:D:106:LEU:HG	1:D:184:ILE:HG22	0.58	1.74	8	1
1:B:136:ILE:HD13	1:B:171:ARG:CB	0.58	2.29	14	1
1:A:48:ARG:HB3	1:A:64:LEU:C	0.58	2.19	15	10

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:C:102:VAL:HG13	1:C:153:LEU:HD22	0.58	1.75	1	1
1:C:25:LEU:HD11	1:D:23:LEU:HD11	0.58	1.75	2	1
1:D:104:ILE:CG2	1:D:141:LEU:HD21	0.58	2.29	3	1
1:A:165:ARG:O	1:A:169:THR:HG23	0.58	1.99	10	3
1:A:156:GLN:OE1	1:A:158:ALA:HB3	0.58	1.99	8	1
1:E:71:ARG:O	1:E:72:ILE:C	0.58	2.42	8	2
1:F:144:VAL:HG21	1:F:164:ILE:HG13	0.58	1.75	9	1
1:A:27:LEU:O	1:A:27:LEU:HD23	0.58	1.99	10	1
1:B:105:SER:HB3	1:B:184:ILE:HD12	0.58	1.76	10	1
1:A:104:ILE:HD12	1:A:145:VAL:HB	0.58	1.76	11	1
1:B:106:LEU:HD21	1:B:168:LEU:HD13	0.58	1.74	11	2
1:F:129:GLU:HA	1:F:133:LEU:HD13	0.58	1.76	14	1
1:A:178:ILE:HG23	1:A:178:ILE:O	0.58	1.97	15	1
1:F:117:LEU:N	1:F:117:LEU:CD2	0.57	2.67	1	1
1:A:62:THR:HG22	1:A:117:LEU:C	0.57	2.19	2	1
1:D:52:PHE:CE1	1:D:58:VAL:HG12	0.57	2.34	2	1
1:A:104:ILE:HG23	1:A:104:ILE:O	0.57	1.98	3	5
1:E:111:ARG:HB2	1:E:179:LEU:HD23	0.57	1.76	3	1
1:F:62:THR:HG22	1:F:117:LEU:HB3	0.57	1.76	10	4
1:D:120:MET:O	1:D:124:LEU:HD12	0.57	1.99	5	1
1:C:63:ILE:CD1	1:C:81:TYR:O	0.57	2.51	15	2
1:E:62:THR:CB	1:E:117:LEU:HB3	0.57	2.29	12	2
1:F:165:ARG:HA	1:F:182:VAL:HG11	0.57	1.76	12	4
1:B:48:ARG:O	1:B:63:ILE:C	0.57	2.41	8	12
1:D:49:ALA:CA	1:D:50:ILE:HD13	0.57	2.30	12	5
1:F:43:VAL:HG13	1:F:43:VAL:O	0.57	1.99	7	4
1:F:144:VAL:CG1	1:F:164:ILE:HG22	0.57	2.28	3	1
1:D:137:VAL:HG12	1:D:141:LEU:HD12	0.57	1.74	4	1
1:A:78:PRO:O	1:A:79:ILE:HG23	0.57	1.99	5	2
1:F:55:ILE:HG23	1:F:55:ILE:O	0.57	1.99	6	1
1:A:94:THR:HG21	1:A:145:VAL:HG11	0.57	1.75	11	1
1:D:104:ILE:HB	1:D:145:VAL:HG11	0.57	1.75	11	1
1:B:63:ILE:H	1:B:117:LEU:HD22	0.57	1.59	14	1
1:C:68:LEU:C	1:C:68:LEU:HD13	0.57	2.20	15	1
1:F:49:ALA:CA	1:F:50:ILE:HD13	0.57	2.29	6	5
1:A:106:LEU:HD12	1:A:137:VAL:HG13	0.57	1.74	2	1
1:B:62:THR:HG22	1:B:117:LEU:HB3	0.57	1.76	6	2
1:B:41:PHE:CG	1:B:71:ARG:CB	0.57	2.88	5	2
1:C:47:HIS:CD2	1:C:63:ILE:HG23	0.57	2.35	10	1
1:B:102:VAL:HB	1:B:153:LEU:HD13	0.57	1.75	11	1
1:F:62:THR:HA	1:F:117:LEU:HD22	0.57	1.76	14	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:63:ILE:CD1	1:A:117:LEU:HD13	0.57	2.29	15	1
1:B:121:TYR:CD1	1:B:121:TYR:C	0.57	2.77	15	1
1:C:25:LEU:HD11	1:D:23:LEU:HD22	0.57	1.76	15	1
1:C:63:ILE:HG22	1:C:64:LEU:N	0.57	2.13	2	2
1:A:153:LEU:HD12	1:A:154:ILE:N	0.57	2.14	3	1
1:B:43:VAL:HG12	1:B:64:LEU:CG	0.57	2.29	6	2
1:C:50:ILE:HG12	1:C:62:THR:CB	0.57	2.29	11	5
1:D:102:VAL:CG2	1:D:153:LEU:HD13	0.57	2.29	4	1
1:A:58:VAL:HG21	1:B:45:GLY:C	0.57	2.20	6	1
1:E:107:ARG:NH1	1:E:183:ALA:HB3	0.57	2.14	7	1
1:A:106:LEU:HD13	1:A:107:ARG:N	0.57	2.14	14	1
1:A:68:LEU:HB2	1:F:54:ARG:HG3	0.57	1.74	2	1
1:F:106:LEU:N	1:F:141:LEU:HD13	0.57	2.15	2	1
1:E:128:TYR:OH	1:F:83:ILE:HG21	0.57	1.99	4	1
1:B:68:LEU:HD12	1:B:68:LEU:N	0.57	2.13	11	1
1:F:162:LEU:O	1:F:162:LEU:HD23	0.57	1.99	15	1
1:F:63:ILE:HG21	1:F:81:TYR:O	0.57	1.98	10	7
1:B:64:LEU:HB2	1:B:80:ILE:HB	0.57	1.77	3	3
1:C:164:ILE:HG22	1:C:168:LEU:HD23	0.57	1.75	3	1
1:E:165:ARG:CA	1:E:182:VAL:HG11	0.57	2.28	14	3
1:A:140:VAL:O	1:A:144:VAL:HG13	0.57	1.99	13	1
1:A:141:LEU:O	1:A:145:VAL:HG22	0.57	2.00	15	1
1:C:43:VAL:HG12	1:C:64:LEU:HD21	0.57	1.76	2	1
1:C:128:TYR:HB2	1:C:132:VAL:HG21	0.57	1.76	5	1
1:E:124:LEU:HD12	1:E:176:SER:HB3	0.57	1.75	5	1
1:D:106:LEU:HB2	1:D:141:LEU:HD13	0.57	1.76	6	1
1:B:140:VAL:O	1:B:144:VAL:HG13	0.57	1.99	10	1
1:B:89:LYS:O	1:B:90:ILE:HD13	0.57	1.99	14	1
1:D:33:ALA:HA	1:D:36:VAL:CG2	0.57	2.30	15	1
1:F:124:LEU:HD11	1:F:177:LEU:HD13	0.57	1.74	15	1
1:C:63:ILE:H	1:C:117:LEU:HG	0.57	1.58	1	1
1:E:165:ARG:HB3	1:E:182:VAL:HG11	0.57	1.76	2	1
1:F:161:SER:CB	1:F:184:ILE:HD11	0.57	2.29	2	1
1:D:50:ILE:HD13	1:D:80:ILE:HG22	0.57	1.76	3	3
1:E:41:PHE:CG	1:E:71:ARG:HB2	0.57	2.34	10	3
1:F:90:ILE:HG23	1:F:105:SER:CB	0.57	2.30	3	1
1:F:104:ILE:HG23	1:F:104:ILE:O	0.57	2.00	11	2
1:A:48:ARG:CG	1:A:63:ILE:HB	0.57	2.29	5	4
1:F:144:VAL:HG11	1:F:164:ILE:CD1	0.57	2.27	5	1
1:A:128:TYR:O	1:A:132:VAL:HG12	0.57	1.99	6	2
1:B:102:VAL:HG13	1:B:104:ILE:HD11	0.57	1.75	6	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:C:48:ARG:HB2	1:C:63:ILE:CG1	0.57	2.29	6	2
1:B:117:LEU:N	1:B:117:LEU:HD13	0.57	2.15	7	1
1:D:102:VAL:CG1	1:D:153:LEU:HD13	0.57	2.29	7	1
1:C:25:LEU:HD11	1:D:23:LEU:HD23	0.57	1.77	11	1
1:F:106:LEU:HA	1:F:184:ILE:HG22	0.57	1.75	14	1
1:B:106:LEU:HB3	1:B:164:ILE:HG21	0.57	1.76	1	1
1:C:168:LEU:HD23	1:C:182:VAL:HG22	0.57	1.76	9	2
1:C:90:ILE:N	1:C:90:ILE:HD12	0.57	2.15	13	4
1:E:54:ARG:O	1:F:68:LEU:HD11	0.57	1.99	2	1
1:A:124:LEU:HD12	1:A:176:SER:HB2	0.57	1.76	4	1
1:C:106:LEU:CB	1:C:184:ILE:HG22	0.57	2.29	4	1
1:C:177:LEU:HD22	1:C:179:LEU:CD2	0.57	2.28	11	1
1:F:157:ARG:O	1:F:184:ILE:HG21	0.57	1.99	13	1
1:A:120:MET:O	1:A:124:LEU:N	0.57	2.38	10	13
1:B:48:ARG:CB	1:B:63:ILE:C	0.57	2.73	1	2
1:C:55:ILE:HG23	1:C:55:ILE:O	0.57	2.00	1	4
1:B:69:HIS:O	1:B:70:PHE:CB	0.57	2.51	8	5
1:C:49:ALA:HB1	1:C:64:LEU:HD12	0.57	1.75	2	2
1:B:58:VAL:HG21	1:C:45:GLY:C	0.57	2.20	7	2
1:B:69:HIS:O	1:B:70:PHE:CD1	0.57	2.57	8	2
1:C:80:ILE:HD13	1:C:80:ILE:H	0.57	1.60	6	1
1:E:48:ARG:HB3	1:E:63:ILE:C	0.57	2.19	7	2
1:D:72:ILE:HG23	1:D:73:PRO:HD2	0.57	1.76	8	1
1:F:104:ILE:HD12	1:F:104:ILE:N	0.57	2.15	8	2
1:A:104:ILE:O	1:A:141:LEU:HD12	0.57	2.00	11	1
1:D:168:LEU:HG	1:D:182:VAL:HG21	0.57	1.77	12	1
1:E:104:ILE:CD1	1:E:145:VAL:HG22	0.56	2.28	9	3
1:E:157:ARG:O	1:E:184:ILE:HG21	0.56	1.99	6	3
1:B:64:LEU:HD23	1:B:80:ILE:HG21	0.56	1.76	2	1
1:C:43:VAL:HG12	1:C:64:LEU:CG	0.56	2.30	2	1
1:E:62:THR:HG23	1:E:121:TYR:HB2	0.56	1.76	7	1
1:C:55:ILE:HD11	1:D:67:GLY:HA2	0.56	1.76	8	1
1:F:121:TYR:CD1	1:F:121:TYR:C	0.56	2.78	9	1
1:C:63:ILE:HD12	1:C:117:LEU:HD11	0.56	1.77	10	1
1:E:58:VAL:HG23	1:E:59:GLN:OE1	0.56	2.00	13	2
1:A:54:ARG:CB	1:B:68:LEU:HD23	0.56	2.30	14	1
1:A:168:LEU:HD13	1:A:168:LEU:O	0.56	2.00	15	1
1:C:102:VAL:HG23	1:C:153:LEU:CD1	0.56	2.29	3	1
1:D:92:SER:HB3	1:D:141:LEU:HD21	0.56	1.76	6	1
1:E:104:ILE:HG23	1:E:141:LEU:HD21	0.56	1.76	13	2
1:E:108:VAL:HG12	1:E:168:LEU:HD21	0.56	1.76	6	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:108:VAL:HG23	1:B:137:VAL:HG12	0.56	1.77	7	1
1:C:59:GLN:HG2	1:C:79:ILE:HG21	0.56	1.76	8	1
1:A:182:VAL:HG23	1:A:182:VAL:O	0.56	2.01	9	2
1:E:22:ALA:HA	1:E:25:LEU:HD12	0.56	1.77	12	1
1:C:164:ILE:CG2	1:C:184:ILE:HD11	0.56	2.30	14	1
1:F:43:VAL:HG12	1:F:65:ALA:C	0.56	2.21	14	1
1:B:48:ARG:HB2	1:B:63:ILE:C	0.56	2.20	1	2
1:A:64:LEU:HD23	1:A:65:ALA:N	0.56	2.15	2	2
1:A:126:LEU:HD11	1:B:46:GLY:CA	0.56	2.31	2	1
1:B:25:LEU:HD21	1:C:23:LEU:HD22	0.56	1.77	2	1
1:B:43:VAL:CG2	1:B:64:LEU:HG	0.56	2.28	2	1
1:B:63:ILE:HG22	1:B:64:LEU:N	0.56	2.15	2	1
1:A:185:THR:O	1:A:185:THR:HG23	0.56	2.00	15	3
1:B:165:ARG:CA	1:B:182:VAL:HG11	0.56	2.30	3	1
1:C:79:ILE:O	1:C:79:ILE:HG23	0.56	2.00	3	6
1:E:165:ARG:CA	1:E:182:VAL:HG21	0.56	2.30	4	1
1:F:50:ILE:HG12	1:F:62:THR:CB	0.56	2.31	15	2
1:E:117:LEU:HD13	1:E:120:MET:HE3	0.56	1.77	5	1
1:B:50:ILE:HD12	1:B:63:ILE:O	0.56	2.01	7	2
1:D:54:ARG:CD	1:E:68:LEU:HD13	0.56	2.30	7	1
1:E:62:THR:HG22	1:E:117:LEU:HB3	0.56	1.77	7	2
1:F:41:PHE:CG	1:F:71:ARG:HB2	0.56	2.35	9	4
1:F:140:VAL:HG11	1:F:164:ILE:HG23	0.56	1.76	8	1
1:C:78:PRO:O	1:C:79:ILE:HG23	0.56	2.00	9	1
1:F:136:ILE:HD11	1:F:175:PHE:HE1	0.56	1.60	9	1
1:B:109:LEU:HB2	1:B:182:VAL:HG22	0.56	1.77	11	1
1:C:178:ILE:HG23	1:C:178:ILE:O	0.56	2.01	11	1
1:C:43:VAL:CG1	1:C:49:ALA:HB2	0.56	2.31	15	3
1:C:141:LEU:O	1:C:145:VAL:HG22	0.56	1.99	14	1
1:A:92:SER:CB	1:A:103:ASN:HB3	0.56	2.30	15	1
1:F:148:PHE:CE2	1:F:163:LEU:HD13	0.56	2.34	15	1
1:B:129:GLU:C	1:B:133:LEU:HD12	0.56	2.21	1	1
1:C:43:VAL:CG2	1:C:49:ALA:HB2	0.56	2.30	1	1
1:B:72:ILE:O	1:B:72:ILE:HG22	0.56	2.00	13	2
1:B:50:ILE:HG13	1:B:79:ILE:O	0.56	2.00	8	3
1:C:24:LYS:C	1:D:27:LEU:HD11	0.56	2.21	9	1
1:C:43:VAL:CG1	1:C:65:ALA:N	0.56	2.69	11	2
1:B:104:ILE:CG1	1:B:153:LEU:HD11	0.56	2.29	11	1
1:D:132:VAL:HG21	1:D:175:PHE:CZ	0.56	2.35	12	1
1:A:64:LEU:HD12	1:A:118:PRO:CB	0.56	2.29	15	1
1:B:62:THR:HA	1:B:117:LEU:CB	0.56	2.31	9	7

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:49:ALA:CB	1:B:64:LEU:CD1	0.56	2.84	9	9
1:A:50:ILE:HG13	1:A:62:THR:O	0.56	2.00	5	1
1:B:25:LEU:HD23	1:C:23:LEU:HD23	0.56	1.76	6	1
1:B:107:ARG:HB2	1:B:184:ILE:HD13	0.56	1.77	14	1
1:F:64:LEU:HB3	1:F:80:ILE:HG21	0.56	1.77	14	2
1:D:108:VAL:CG2	1:D:137:VAL:HG11	0.56	2.30	15	1
1:C:104:ILE:O	1:C:104:ILE:HG23	0.56	2.01	1	5
1:F:48:ARG:HB3	1:F:64:LEU:C	0.56	2.21	8	8
1:B:104:ILE:HG21	1:B:144:VAL:HB	0.56	1.78	3	1
1:C:106:LEU:HA	1:C:184:ILE:HG22	0.56	1.75	11	3
1:A:68:LEU:HD13	1:A:68:LEU:C	0.56	2.21	7	4
1:D:69:HIS:O	1:D:70:PHE:CB	0.56	2.53	5	2
1:B:25:LEU:CD1	1:C:23:LEU:HD21	0.56	2.31	7	1
1:A:132:VAL:HG13	1:A:175:PHE:CE1	0.56	2.36	10	2
1:A:54:ARG:O	1:B:68:LEU:HD22	0.56	2.01	15	1
1:C:106:LEU:HB2	1:C:141:LEU:HD12	0.56	1.76	15	1
1:D:117:LEU:HG	1:D:118:PRO:HD3	0.56	1.77	6	2
1:D:185:THR:HG23	1:D:185:THR:O	0.56	2.01	3	1
1:F:102:VAL:HG22	1:F:150:ALA:HA	0.56	1.78	5	1
1:C:54:ARG:HG3	1:C:55:ILE:HG23	0.56	1.78	7	1
1:D:106:LEU:CD2	1:D:168:LEU:HD22	0.56	2.30	14	1
1:C:71:ARG:CG	1:C:71:ARG:O	0.56	2.52	15	1
1:D:104:ILE:O	1:D:104:ILE:HG23	0.56	2.01	1	2
1:F:156:GLN:OE1	1:F:158:ALA:HB3	0.56	2.01	1	1
1:F:43:VAL:HG23	1:F:43:VAL:O	0.56	2.01	9	3
1:A:94:THR:O	1:A:145:VAL:HG13	0.56	2.01	6	1
1:A:94:THR:HG21	1:A:103:ASN:O	0.56	2.01	15	1
1:C:97:LYS:HE3	1:C:150:ALA:HB2	0.56	1.78	15	1
1:B:62:THR:N	1:B:81:TYR:HB2	0.56	2.16	8	5
1:B:94:THR:HB	1:B:145:VAL:HG21	0.56	1.77	12	3
1:B:43:VAL:HG12	1:B:64:LEU:HD21	0.56	1.76	4	2
1:F:48:ARG:HB2	1:F:63:ILE:HA	0.56	1.75	10	2
1:A:63:ILE:HA	1:A:117:LEU:HD22	0.56	1.76	11	1
1:B:47:HIS:NE2	1:B:83:ILE:HG23	0.56	2.15	11	1
1:B:129:GLU:O	1:B:133:LEU:HD13	0.56	2.00	11	1
1:C:184:ILE:HD12	1:C:186:GLU:HG2	0.56	1.78	11	1
1:D:104:ILE:HD11	1:D:153:LEU:CD1	0.56	2.31	12	1
1:E:165:ARG:HB3	1:E:182:VAL:HG21	0.56	1.78	2	1
1:F:140:VAL:HG12	1:F:144:VAL:HG23	0.56	1.78	3	1
1:B:63:ILE:HG12	1:B:117:LEU:HD23	0.56	1.76	7	1
1:C:144:VAL:HG21	1:C:164:ILE:CD1	0.56	2.31	9	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:E:50:ILE:HG22	1:E:59:GLN:OE1	0.56	2.01	10	1
1:C:105:SER:HB3	1:C:186:GLU:HB2	0.56	1.78	12	1
1:F:184:ILE:HG23	1:F:184:ILE:O	0.56	2.01	13	1
1:A:129:GLU:O	1:A:133:LEU:HD13	0.56	2.00	14	1
1:F:64:LEU:CB	1:F:80:ILE:HG21	0.56	2.31	15	2
1:F:114:ALA:HB1	1:F:177:LEU:HD23	0.56	1.78	14	1
1:D:106:LEU:HD11	1:D:137:VAL:CB	0.56	2.30	15	1
1:F:106:LEU:C	1:F:106:LEU:CD2	0.56	2.75	15	1
1:A:48:ARG:HB2	1:A:64:LEU:N	0.55	2.16	11	5
1:A:63:ILE:CG2	1:A:81:TYR:O	0.55	2.54	5	10
1:B:62:THR:CA	1:B:117:LEU:HB3	0.55	2.31	8	6
1:C:50:ILE:HD13	1:C:80:ILE:HG22	0.55	1.77	2	1
1:B:65:ALA:O	1:B:66:GLU:HB3	0.55	1.98	15	3
1:D:52:PHE:O	1:D:77:TYR:N	0.55	2.38	6	6
1:A:106:LEU:CA	1:A:184:ILE:HG22	0.55	2.31	4	1
1:A:129:GLU:HA	1:A:133:LEU:HD12	0.55	1.78	4	1
1:D:182:VAL:O	1:D:182:VAL:HG13	0.55	2.01	7	2
1:A:63:ILE:HG13	1:A:117:LEU:HD13	0.55	1.78	15	1
1:C:48:ARG:HG2	1:C:64:LEU:O	0.55	2.01	15	1
1:A:43:VAL:CG1	1:A:49:ALA:HB2	0.55	2.31	12	6
1:C:49:ALA:CA	1:C:50:ILE:HD13	0.55	2.31	3	5
1:A:137:VAL:HG12	1:A:168:LEU:HG	0.55	1.79	3	1
1:B:104:ILE:HD11	1:B:153:LEU:CD1	0.55	2.24	3	1
1:A:90:ILE:O	1:A:105:SER:HB3	0.55	2.01	4	1
1:B:104:ILE:HG21	1:B:145:VAL:HG21	0.55	1.76	4	1
1:E:78:PRO:O	1:E:79:ILE:HG23	0.55	2.00	12	4
1:E:149:ASN:O	1:E:153:LEU:HD13	0.55	2.00	5	1
1:A:126:LEU:N	1:A:126:LEU:HD12	0.55	2.15	13	2
1:A:168:LEU:HD22	1:A:182:VAL:HG21	0.55	1.77	9	1
1:B:64:LEU:CB	1:B:80:ILE:CG2	0.55	2.84	15	4
1:B:52:PHE:CZ	1:B:58:VAL:HG22	0.55	2.36	10	1
1:A:102:VAL:CG1	1:A:145:VAL:HG23	0.55	2.31	11	1
1:A:124:LEU:C	1:A:124:LEU:HD23	0.55	2.21	12	1
1:A:64:LEU:HD21	1:A:118:PRO:CG	0.55	2.30	14	1
1:C:64:LEU:HB3	1:C:80:ILE:HG21	0.55	1.79	11	3
1:D:44:GLU:O	1:D:66:GLU:N	0.55	2.39	6	2
1:E:106:LEU:HB2	1:E:141:LEU:HD12	0.55	1.77	6	1
1:B:50:ILE:HD11	1:B:80:ILE:CG2	0.55	2.31	7	2
1:A:165:ARG:HB2	1:A:182:VAL:HG21	0.55	1.78	8	1
1:C:103:ASN:C	1:C:104:ILE:HD12	0.55	2.21	15	1
1:F:63:ILE:HA	1:F:81:TYR:O	0.55	2.01	15	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:D:144:VAL:HG11	1:D:164:ILE:CG1	0.55	2.31	11	2
1:E:62:THR:HA	1:E:117:LEU:HB3	0.55	1.76	8	4
1:A:62:THR:CG2	1:A:121:TYR:HB2	0.55	2.32	2	4
1:B:47:HIS:HB2	1:B:65:ALA:CB	0.55	2.31	13	5
1:B:68:LEU:N	1:B:68:LEU:HD23	0.55	2.17	8	1
1:C:60:GLN:HG3	1:C:126:LEU:HD23	0.55	1.79	8	1
1:E:132:VAL:HG13	1:E:175:PHE:CE2	0.55	2.37	9	1
1:F:124:LEU:HD13	1:F:124:LEU:O	0.55	2.01	9	1
1:C:107:ARG:CG	1:C:184:ILE:HG22	0.55	2.29	10	1
1:E:124:LEU:HD13	1:E:176:SER:HB2	0.55	1.78	10	1
1:C:114:ALA:HB2	1:C:178:ILE:HD13	0.55	1.77	11	1
1:E:128:TYR:HB2	1:E:132:VAL:HG21	0.55	1.78	13	1
1:B:102:VAL:HG21	1:B:150:ALA:HB2	0.55	1.78	14	1
1:F:58:VAL:HG22	1:F:121:TYR:HE1	0.55	1.62	14	1
1:D:50:ILE:HD13	1:D:80:ILE:CB	0.55	2.32	1	6
1:D:144:VAL:HG11	1:D:164:ILE:HG12	0.55	1.76	11	2
1:D:104:ILE:N	1:D:104:ILE:HD13	0.55	2.17	2	1
1:A:148:PHE:CE2	1:A:163:LEU:HD22	0.55	2.36	12	2
1:B:93:PRO:O	1:B:94:THR:HG23	0.55	2.02	11	2
1:B:43:VAL:HB	1:B:67:GLY:O	0.55	2.01	8	6
1:F:141:LEU:HD23	1:F:142:LYS:N	0.55	2.17	11	1
1:F:50:ILE:HG13	1:F:62:THR:HG22	0.55	1.79	13	1
1:A:104:ILE:HD12	1:A:104:ILE:N	0.55	2.17	1	1
1:A:121:TYR:CG	1:A:122:GLN:N	0.55	2.74	15	4
1:A:50:ILE:HD13	1:A:80:ILE:CB	0.55	2.32	11	6
1:B:133:LEU:O	1:B:137:VAL:HG23	0.55	2.01	2	4
1:F:124:LEU:HD13	1:F:125:GLY:O	0.55	2.01	2	1
1:F:50:ILE:HD11	1:F:80:ILE:HG13	0.55	1.79	3	1
1:C:153:LEU:HD21	1:C:160:VAL:HG21	0.55	1.79	5	1
1:C:128:TYR:O	1:C:132:VAL:HG23	0.55	2.02	6	2
1:A:54:ARG:CB	1:B:68:LEU:HD13	0.55	2.32	11	1
1:D:183:ALA:O	1:D:184:ILE:HG23	0.55	2.02	13	1
1:B:92:SER:CB	1:B:141:LEU:HD21	0.55	2.31	14	1
1:F:43:VAL:CG2	1:F:67:GLY:O	0.55	2.55	15	2
1:A:48:ARG:CB	1:A:63:ILE:C	0.55	2.75	2	10
1:B:120:MET:O	1:B:124:LEU:N	0.55	2.39	14	11
1:D:104:ILE:CG2	1:D:153:LEU:HD11	0.55	2.31	2	1
1:F:182:VAL:O	1:F:182:VAL:HG13	0.55	2.01	2	2
1:D:95:GLY:CA	1:D:102:VAL:HG12	0.55	2.31	3	1
1:D:144:VAL:HG21	1:D:164:ILE:HD13	0.55	1.78	3	2
1:D:58:VAL:HG21	1:E:45:GLY:HA3	0.55	1.78	4	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:D:78:PRO:O	1:D:79:ILE:HG23	0.55	2.02	7	2
1:D:117:LEU:N	1:D:117:LEU:CD2	0.55	2.70	4	3
1:F:43:VAL:CG1	1:F:49:ALA:HB2	0.55	2.32	9	3
1:A:129:GLU:HG2	1:A:133:LEU:HD22	0.55	1.78	6	1
1:C:117:LEU:O	1:C:121:TYR:N	0.55	2.40	7	1
1:D:124:LEU:HD22	1:D:176:SER:HB2	0.55	1.79	7	1
1:A:112:PRO:HB2	1:A:117:LEU:HD11	0.55	1.76	9	1
1:B:43:VAL:HG11	1:B:49:ALA:HB2	0.55	1.78	5	2
1:E:43:VAL:HG21	1:E:49:ALA:HB2	0.55	1.79	1	1
1:B:42:THR:O	1:B:42:THR:HG23	0.55	2.02	3	2
1:F:124:LEU:HD13	1:F:124:LEU:C	0.55	2.21	2	1
1:B:63:ILE:HD11	1:B:83:ILE:HG13	0.55	1.78	3	1
1:D:177:LEU:O	1:D:178:ILE:HG23	0.55	2.02	5	2
1:E:42:THR:HG23	1:E:42:THR:O	0.55	2.01	13	6
1:D:140:VAL:HG11	1:D:168:LEU:HD21	0.55	1.79	9	1
1:A:142:LYS:O	1:A:145:VAL:HG12	0.55	2.02	11	1
1:D:50:ILE:HD11	1:D:80:ILE:HG23	0.55	1.76	11	1
1:C:165:ARG:O	1:C:169:THR:HG23	0.55	2.01	12	1
1:B:92:SER:HB2	1:B:141:LEU:HD21	0.55	1.78	14	1
1:D:144:VAL:CG2	1:D:164:ILE:HG22	0.55	2.29	14	1
1:E:104:ILE:HD13	1:E:145:VAL:HG22	0.55	1.78	14	1
1:A:133:LEU:O	1:A:137:VAL:HG12	0.55	2.01	1	1
1:B:102:VAL:HG12	1:B:153:LEU:HD12	0.55	1.79	1	1
1:A:26:LEU:HD11	1:F:25:LEU:CD2	0.55	2.27	2	1
1:B:63:ILE:CG1	1:B:81:TYR:O	0.55	2.55	2	2
1:E:104:ILE:HD12	1:E:186:GLU:OE2	0.55	2.01	6	1
1:C:121:TYR:CD2	1:C:121:TYR:C	0.55	2.79	7	3
1:A:72:ILE:HG22	1:A:72:ILE:O	0.55	2.01	10	1
1:B:109:LEU:HD21	1:B:111:ARG:NH1	0.55	2.17	10	1
1:F:62:THR:HA	1:F:117:LEU:CB	0.55	2.32	14	1
1:F:51:PHE:O	1:F:52:PHE:CD1	0.55	2.60	15	1
1:F:165:ARG:CA	1:F:182:VAL:HG11	0.55	2.32	12	4
1:D:118:PRO:O	1:D:121:TYR:CD2	0.55	2.60	3	1
1:E:178:ILE:HG23	1:E:178:ILE:O	0.55	2.00	13	2
1:F:50:ILE:CG1	1:F:62:THR:HB	0.55	2.32	7	2
1:B:106:LEU:N	1:B:141:LEU:HD13	0.55	2.17	13	1
1:F:99:LEU:HD23	1:F:99:LEU:O	0.55	2.02	13	1
1:B:182:VAL:HG23	1:B:182:VAL:O	0.54	2.01	2	3
1:D:104:ILE:HG21	1:D:145:VAL:HB	0.54	1.77	1	1
1:E:182:VAL:HG23	1:E:182:VAL:O	0.54	2.02	1	2
1:A:26:LEU:CD1	1:F:25:LEU:HD21	0.54	2.29	2	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:C:47:HIS:HB2	1:C:65:ALA:CB	0.54	2.30	10	2
1:F:128:TYR:O	1:F:132:VAL:HG23	0.54	2.01	2	1
1:A:23:LEU:HD13	1:F:21:THR:HG21	0.54	1.79	4	1
1:B:108:VAL:HG13	1:B:108:VAL:O	0.54	2.02	4	2
1:E:72:ILE:HG23	1:E:72:ILE:O	0.54	2.03	8	1
1:C:54:ARG:CB	1:D:68:LEU:HD23	0.54	2.32	9	1
1:D:46:GLY:O	1:D:47:HIS:CD2	0.54	2.60	9	1
1:E:124:LEU:C	1:E:124:LEU:HD13	0.54	2.22	9	1
1:D:102:VAL:HG12	1:D:104:ILE:CD1	0.54	2.32	11	1
1:D:53:ASN:O	1:D:55:ILE:HG22	0.54	2.03	1	1
1:B:144:VAL:HG22	1:B:148:PHE:CE1	0.54	2.36	2	1
1:D:54:ARG:O	1:D:55:ILE:CG2	0.54	2.55	2	1
1:D:141:LEU:O	1:D:145:VAL:HG13	0.54	2.02	2	1
1:C:28:GLY:CA	1:D:27:LEU:HD21	0.54	2.32	3	1
1:E:132:VAL:HG23	1:E:175:PHE:CE2	0.54	2.38	4	1
1:E:55:ILE:HG23	1:E:55:ILE:O	0.54	2.03	11	3
1:E:59:GLN:C	1:E:79:ILE:HD12	0.54	2.22	12	2
1:F:78:PRO:O	1:F:79:ILE:HG23	0.54	2.01	12	3
1:E:90:ILE:O	1:E:105:SER:HB3	0.54	2.01	8	2
1:A:64:LEU:O	1:A:64:LEU:HD23	0.54	2.02	9	1
1:E:43:VAL:HG13	1:E:43:VAL:O	0.54	2.02	11	1
1:F:168:LEU:HD13	1:F:182:VAL:HG13	0.54	1.79	12	1
1:D:109:LEU:HD22	1:D:180:ASP:CG	0.54	2.21	14	1
1:E:108:VAL:HG21	1:E:137:VAL:CG2	0.54	2.31	15	1
1:E:153:LEU:HG	1:E:160:VAL:HG11	0.54	1.78	15	1
1:A:50:ILE:CG1	1:A:79:ILE:O	0.54	2.55	13	8
1:C:50:ILE:HG21	1:C:62:THR:HG21	0.54	1.78	2	1
1:A:54:ARG:HB3	1:B:68:LEU:HD13	0.54	1.79	11	2
1:C:50:ILE:HG13	1:C:79:ILE:O	0.54	2.01	10	2
1:A:43:VAL:HG11	1:A:49:ALA:HB2	0.54	1.77	14	4
1:A:140:VAL:O	1:A:144:VAL:HG12	0.54	2.02	4	2
1:C:50:ILE:CG1	1:C:62:THR:HB	0.54	2.33	13	2
1:D:43:VAL:HG11	1:D:49:ALA:HB2	0.54	1.79	12	4
1:B:41:PHE:CG	1:B:71:ARG:HB3	0.54	2.37	12	6
1:B:136:ILE:HD11	1:B:171:ARG:CB	0.54	2.33	5	1
1:D:120:MET:C	1:D:124:LEU:HD12	0.54	2.23	5	1
1:E:58:VAL:HG21	1:F:45:GLY:CA	0.54	2.32	5	1
1:E:72:ILE:HG22	1:E:72:ILE:O	0.54	2.03	13	2
1:B:52:PHE:CD2	1:B:58:VAL:HG13	0.54	2.37	10	1
1:E:68:LEU:C	1:E:68:LEU:HD13	0.54	2.22	10	1
1:E:153:LEU:HD11	1:E:186:GLU:OE2	0.54	2.02	12	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:23:LEU:HD23	1:F:25:LEU:HD11	0.54	1.77	14	1
1:F:64:LEU:HB3	1:F:80:ILE:CB	0.54	2.32	14	1
1:A:117:LEU:N	1:A:117:LEU:CD2	0.54	2.70	5	6
1:B:182:VAL:HG13	1:B:182:VAL:O	0.54	2.02	3	5
1:D:117:LEU:HG	1:D:118:PRO:CD	0.54	2.33	3	1
1:E:104:ILE:CG2	1:E:145:VAL:HG21	0.54	2.27	3	1
1:E:50:ILE:CG2	1:E:117:LEU:HG	0.54	2.32	4	1
1:B:62:THR:CG2	1:B:121:TYR:HB2	0.54	2.33	5	1
1:C:137:VAL:O	1:C:141:LEU:HD23	0.54	2.03	8	1
1:D:41:PHE:CD2	1:D:71:ARG:CB	0.54	2.91	8	1
1:E:154:ILE:HG22	1:E:189:PHE:CZ	0.54	2.37	9	1
1:B:184:ILE:HD13	1:B:185:THR:H	0.54	1.59	10	1
1:F:69:HIS:O	1:F:70:PHE:CB	0.54	2.55	14	2
1:D:182:VAL:O	1:D:182:VAL:HG23	0.54	2.02	15	4
1:D:127:ASP:OD1	1:E:83:ILE:HD11	0.54	2.02	2	1
1:B:64:LEU:HB3	1:B:80:ILE:HG13	0.54	1.79	8	4
1:E:104:ILE:O	1:E:104:ILE:HG23	0.54	2.03	4	1
1:C:182:VAL:HG23	1:C:182:VAL:O	0.54	2.03	7	2
1:B:153:LEU:HD11	1:B:186:GLU:OE1	0.54	2.02	9	1
1:A:82:ASP:O	1:A:83:ILE:CB	0.54	2.55	15	2
1:D:178:ILE:HG23	1:D:178:ILE:O	0.54	2.03	15	1
1:B:185:THR:HG23	1:B:185:THR:O	0.54	2.03	13	2
1:C:153:LEU:HD23	1:C:154:ILE:N	0.54	2.17	3	1
1:F:62:THR:CG2	1:F:121:TYR:HB2	0.54	2.33	5	4
1:F:136:ILE:HD11	1:F:171:ARG:CB	0.54	2.33	5	1
1:B:50:ILE:CD1	1:B:50:ILE:N	0.54	2.62	6	1
1:B:43:VAL:CB	1:B:67:GLY:O	0.54	2.55	8	3
1:F:124:LEU:HD21	1:F:175:PHE:HB3	0.54	1.77	10	1
1:F:132:VAL:HG13	1:F:175:PHE:CE1	0.54	2.37	12	2
1:F:59:GLN:O	1:F:79:ILE:HD12	0.54	2.02	11	1
1:E:104:ILE:HG23	1:E:104:ILE:O	0.54	2.03	13	1
1:F:64:LEU:O	1:F:65:ALA:HB2	0.54	2.03	15	2
1:A:43:VAL:O	1:A:43:VAL:HG13	0.54	2.03	15	1
1:B:106:LEU:CD2	1:B:140:VAL:HG23	0.54	2.32	15	1
1:E:79:ILE:HG23	1:E:79:ILE:O	0.54	2.03	1	5
1:A:25:LEU:HD23	1:B:27:LEU:HD21	0.54	1.79	13	3
1:B:50:ILE:HG12	1:B:62:THR:OG1	0.54	2.03	14	3
1:E:50:ILE:HD11	1:E:63:ILE:HA	0.54	1.79	3	3
1:F:50:ILE:HG12	1:F:117:LEU:HD11	0.54	1.79	11	2
1:A:182:VAL:HG13	1:A:182:VAL:O	0.54	2.01	10	5
1:D:104:ILE:HG22	1:D:141:LEU:HD22	0.54	1.79	7	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:F:104:ILE:O	1:F:104:ILE:HG23	0.54	2.03	10	2
1:A:68:LEU:O	1:A:68:LEU:HD12	0.54	2.02	9	1
1:D:157:ARG:O	1:D:160:VAL:HG12	0.54	2.03	15	1
1:E:183:ALA:C	1:E:184:ILE:HD12	0.54	2.23	15	1
1:F:126:LEU:O	1:F:127:ASP:CB	0.54	2.56	15	1
1:B:121:TYR:C	1:B:121:TYR:CD2	0.54	2.82	1	1
1:B:60:GLN:CB	1:B:121:TYR:CE1	0.54	2.90	3	1
1:A:130:GLU:O	1:A:134:PRO:CG	0.54	2.56	6	4
1:F:90:ILE:N	1:F:90:ILE:HD12	0.54	2.18	4	1
1:F:62:THR:C	1:F:63:ILE:CG1	0.54	2.76	8	3
1:C:150:ALA:O	1:C:154:ILE:HG22	0.54	2.03	8	2
1:F:63:ILE:HD13	1:F:83:ILE:HD11	0.54	1.79	7	1
1:C:64:LEU:HD21	1:C:118:PRO:HG3	0.54	1.80	8	1
1:B:45:GLY:O	1:B:65:ALA:O	0.54	2.26	9	2
1:F:72:ILE:HG22	1:F:72:ILE:O	0.54	2.02	10	1
1:B:58:VAL:HG23	1:B:58:VAL:O	0.54	2.01	12	1
1:C:108:VAL:O	1:C:108:VAL:HG13	0.54	2.01	2	2
1:B:43:VAL:HG21	1:B:67:GLY:HA3	0.54	1.80	13	2
1:E:64:LEU:HD23	1:E:116:GLU:HG2	0.54	1.80	13	1
1:F:45:GLY:CA	1:F:65:ALA:HB1	0.54	2.33	14	1
1:F:102:VAL:HG11	1:F:145:VAL:HG13	0.54	1.78	14	1
1:A:48:ARG:O	1:A:63:ILE:HG22	0.54	2.03	12	6
1:B:132:VAL:HG11	1:B:175:PHE:CE2	0.54	2.37	1	1
1:F:133:LEU:CB	1:F:134:PRO:CD	0.54	2.86	6	13
1:F:107:ARG:CG	1:F:184:ILE:HG22	0.54	2.33	3	1
1:A:43:VAL:HG23	1:A:43:VAL:O	0.54	2.03	12	3
1:C:48:ARG:CB	1:C:63:ILE:C	0.54	2.77	8	6
1:D:71:ARG:O	1:D:72:ILE:C	0.54	2.46	4	3
1:E:106:LEU:HD23	1:E:141:LEU:CD1	0.54	2.28	5	1
1:A:79:ILE:O	1:A:79:ILE:HG23	0.54	2.03	13	1
1:E:41:PHE:CG	1:E:71:ARG:CB	0.53	2.91	9	10
1:A:106:LEU:O	1:A:137:VAL:HG11	0.53	2.03	2	1
1:C:46:GLY:O	1:C:47:HIS:CD2	0.53	2.62	10	3
1:C:141:LEU:O	1:C:144:VAL:HG22	0.53	2.03	5	3
1:F:49:ALA:CA	1:F:50:ILE:HD12	0.53	2.33	4	7
1:A:102:VAL:HG13	1:A:102:VAL:O	0.53	2.03	4	1
1:D:132:VAL:HG13	1:D:175:PHE:CE2	0.53	2.38	4	1
1:D:168:LEU:HD23	1:D:182:VAL:HG22	0.53	1.78	4	1
1:F:182:VAL:HG23	1:F:182:VAL:O	0.53	2.03	4	3
1:C:42:THR:HG23	1:C:42:THR:O	0.53	2.03	6	2
1:B:106:LEU:HD21	1:B:164:ILE:CD1	0.53	2.28	7	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:D:184:ILE:HG23	1:D:184:ILE:O	0.53	2.02	7	1
1:D:72:ILE:HD12	1:D:72:ILE:N	0.53	2.18	8	1
1:E:48:ARG:HE	1:E:63:ILE:HD12	0.53	1.64	8	1
1:A:49:ALA:CB	1:A:64:LEU:HD12	0.53	2.32	9	1
1:F:88:ARG:CD	1:F:133:LEU:HD23	0.53	2.32	9	2
1:A:98:ASP:OD1	1:A:150:ALA:HB3	0.53	2.04	12	1
1:E:144:VAL:CG1	1:E:164:ILE:HG22	0.53	2.33	13	1
1:C:48:ARG:HB3	1:C:64:LEU:C	0.53	2.24	1	6
1:C:121:TYR:CD1	1:C:121:TYR:C	0.53	2.82	11	3
1:D:136:ILE:N	1:D:136:ILE:HD12	0.53	2.18	1	2
1:D:95:GLY:HA2	1:D:102:VAL:HG12	0.53	1.81	4	1
1:F:79:ILE:HG23	1:F:79:ILE:O	0.53	2.02	6	3
1:D:109:LEU:CB	1:D:182:VAL:HG22	0.53	2.34	5	1
1:A:24:LYS:O	1:B:27:LEU:HD11	0.53	2.03	7	1
1:B:43:VAL:HG12	1:B:65:ALA:C	0.53	2.23	11	8
1:B:69:HIS:O	1:B:70:PHE:O	0.53	2.26	7	2
1:E:50:ILE:CG2	1:E:62:THR:HB	0.53	2.34	8	2
1:B:178:ILE:N	1:B:178:ILE:CD1	0.53	2.71	12	1
1:A:106:LEU:HB3	1:A:141:LEU:HD11	0.53	1.78	13	1
1:C:42:THR:HG22	1:C:69:HIS:O	0.53	2.03	1	1
1:A:50:ILE:HG13	1:A:79:ILE:O	0.53	2.04	15	4
1:B:43:VAL:CG1	1:B:49:ALA:HB2	0.53	2.33	5	1
1:F:184:ILE:H	1:F:184:ILE:HD13	0.53	1.63	5	2
1:F:132:VAL:O	1:F:136:ILE:HD12	0.53	2.02	6	1
1:E:62:THR:HG23	1:E:118:PRO:N	0.53	2.18	8	1
1:E:102:VAL:CG2	1:E:153:LEU:HD12	0.53	2.20	8	1
1:F:62:THR:CB	1:F:117:LEU:HB3	0.53	2.33	15	2
1:F:104:ILE:CG2	1:F:184:ILE:HD11	0.53	2.31	13	1
1:F:104:ILE:HD13	1:F:145:VAL:HG21	0.53	1.79	13	1
1:D:42:THR:O	1:D:42:THR:HG23	0.53	2.03	10	7
1:F:42:THR:HG23	1:F:42:THR:O	0.53	2.04	1	6
1:A:126:LEU:HD11	1:B:46:GLY:HA2	0.53	1.81	2	1
1:D:104:ILE:CG1	1:D:145:VAL:HG12	0.53	2.33	2	1
1:F:43:VAL:HG21	1:F:49:ALA:HB2	0.53	1.79	2	1
1:F:117:LEU:O	1:F:121:TYR:HB3	0.53	2.03	2	1
1:B:50:ILE:HD13	1:B:79:ILE:O	0.53	2.02	3	1
1:D:133:LEU:O	1:D:137:VAL:HG23	0.53	2.03	11	2
1:B:63:ILE:CD1	1:B:81:TYR:O	0.53	2.56	5	1
1:E:24:LYS:O	1:F:27:LEU:HD11	0.53	2.03	6	1
1:A:43:VAL:CG2	1:A:49:ALA:HB2	0.53	2.32	7	2
1:B:47:HIS:NE2	1:B:83:ILE:HD12	0.53	2.18	14	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:C:185:THR:O	1:C:185:THR:HG23	0.53	2.01	7	2
1:D:116:GLU:CD	1:D:178:ILE:HD11	0.53	2.24	7	1
1:D:154:ILE:HD12	1:D:189:PHE:CE1	0.53	2.39	10	1
1:C:43:VAL:CG2	1:C:67:GLY:O	0.53	2.56	11	1
1:C:63:ILE:N	1:C:117:LEU:HD13	0.53	2.18	11	1
1:F:120:MET:CE	1:F:124:LEU:HD22	0.53	2.33	12	1
1:F:63:ILE:HG21	1:F:112:PRO:HB2	0.53	1.79	14	1
1:C:108:VAL:HA	1:C:182:VAL:HG12	0.53	1.79	15	1
1:C:48:ARG:CG	1:C:63:ILE:HB	0.53	2.33	14	4
1:B:165:ARG:CB	1:B:182:VAL:HG11	0.53	2.34	3	1
1:E:160:VAL:HG12	1:E:164:ILE:CD1	0.53	2.34	5	1
1:D:102:VAL:HG23	1:D:150:ALA:HB1	0.53	1.81	6	1
1:A:62:THR:HG21	1:A:117:LEU:O	0.53	2.03	7	2
1:B:50:ILE:HG21	1:B:62:THR:HG22	0.53	1.81	7	1
1:D:106:LEU:HD13	1:D:164:ILE:HG21	0.53	1.81	11	1
1:A:104:ILE:CD1	1:A:145:VAL:HG22	0.53	2.24	13	1
1:E:186:GLU:C	1:E:187:LEU:HD12	0.53	2.24	13	1
1:D:104:ILE:CD1	1:D:160:VAL:HG11	0.53	2.31	14	1
1:F:62:THR:CA	1:F:117:LEU:HB3	0.53	2.34	12	4
1:A:43:VAL:HG21	1:A:49:ALA:HB2	0.53	1.80	2	3
1:C:48:ARG:O	1:C:64:LEU:CA	0.53	2.57	11	3
1:F:117:LEU:O	1:F:121:TYR:N	0.53	2.42	2	1
1:F:177:LEU:HD23	1:F:179:LEU:HD22	0.53	1.80	2	1
1:B:43:VAL:HG23	1:B:43:VAL:O	0.53	2.03	5	1
1:D:104:ILE:HD12	1:D:145:VAL:HA	0.53	1.80	5	1
1:D:90:ILE:N	1:D:90:ILE:HD12	0.53	2.18	6	2
1:F:108:VAL:C	1:F:109:LEU:HD22	0.53	2.24	6	1
1:E:102:VAL:HG12	1:E:104:ILE:CD1	0.53	2.24	8	1
1:C:47:HIS:HB2	1:C:65:ALA:N	0.53	2.19	11	2
1:A:82:ASP:O	1:A:83:ILE:HG22	0.53	2.04	15	2
1:A:79:ILE:HD12	1:A:79:ILE:O	0.53	2.02	12	2
1:E:54:ARG:CB	1:F:68:LEU:HD12	0.53	2.31	13	1
1:B:173:LYS:CG	1:B:177:LEU:HD12	0.53	2.33	14	1
1:E:98:ASP:CG	1:E:150:ALA:HB2	0.53	2.24	15	1
1:B:47:HIS:N	1:B:65:ALA:O	0.53	2.39	9	6
1:C:58:VAL:O	1:C:58:VAL:HG23	0.53	2.04	2	2
1:A:55:ILE:HG23	1:A:55:ILE:O	0.53	2.04	14	2
1:B:44:GLU:N	1:B:65:ALA:HA	0.53	2.19	6	9
1:C:138:ASN:HA	1:C:141:LEU:HD21	0.53	1.80	3	1
1:E:106:LEU:HD13	1:E:164:ILE:CG2	0.53	2.19	3	1
1:B:80:ILE:HD13	1:B:80:ILE:H	0.53	1.64	4	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:D:156:GLN:OE1	1:D:158:ALA:HB3	0.53	2.03	4	1
1:F:185:THR:O	1:F:185:THR:HG23	0.53	2.04	5	1
1:A:106:LEU:CB	1:A:141:LEU:HD13	0.53	2.32	6	1
1:E:43:VAL:HG23	1:E:43:VAL:O	0.53	2.03	7	2
1:A:45:GLY:HA2	1:A:66:GLU:HA	0.53	1.79	9	1
1:A:104:ILE:O	1:A:141:LEU:HD22	0.53	2.04	10	1
1:C:43:VAL:O	1:C:43:VAL:HG23	0.53	2.03	13	2
1:E:109:LEU:HB3	1:E:179:LEU:HD13	0.53	1.81	13	1
1:C:93:PRO:HG2	1:D:158:ALA:HB2	0.53	1.81	15	1
1:D:22:ALA:HA	1:D:25:LEU:HD12	0.53	1.81	1	1
1:F:153:LEU:CD1	1:F:160:VAL:HG21	0.53	2.34	1	1
1:A:25:LEU:HD21	1:B:26:LEU:HD11	0.53	1.81	3	1
1:C:141:LEU:HD12	1:C:142:LYS:N	0.53	2.18	3	2
1:B:58:VAL:HG21	1:C:45:GLY:HA2	0.53	1.81	10	2
1:D:79:ILE:HG23	1:D:79:ILE:O	0.53	2.03	12	3
1:D:92:SER:HB3	1:D:141:LEU:HD13	0.53	1.81	5	1
1:B:43:VAL:HA	1:B:64:LEU:HD21	0.53	1.80	6	1
1:D:58:VAL:HG13	1:E:66:GLU:OE1	0.53	2.03	13	1
1:F:48:ARG:O	1:F:64:LEU:HA	0.53	2.04	14	2
1:A:50:ILE:CD1	1:A:62:THR:O	0.53	2.54	1	1
1:C:43:VAL:HG21	1:C:49:ALA:HB2	0.53	1.81	8	2
1:F:50:ILE:HG13	1:F:80:ILE:HA	0.53	1.81	3	2
1:B:46:GLY:O	1:B:47:HIS:CG	0.53	2.61	13	11
1:B:47:HIS:HB2	1:B:65:ALA:N	0.53	2.19	14	3
1:C:49:ALA:CB	1:C:64:LEU:CD1	0.53	2.87	11	3
1:F:94:THR:HG22	1:F:101:MET:HB3	0.53	1.81	3	1
1:C:72:ILE:N	1:C:73:PRO:HD2	0.53	2.18	5	1
1:B:50:ILE:HG22	1:B:59:GLN:CD	0.53	2.24	10	2
1:B:50:ILE:CG1	1:B:62:THR:O	0.53	2.57	3	2
1:C:48:ARG:CD	1:C:63:ILE:HB	0.53	2.33	7	2
1:C:124:LEU:HD23	1:C:176:SER:HB3	0.53	1.81	4	1
1:E:48:ARG:CG	1:E:63:ILE:HB	0.53	2.34	12	6
1:C:117:LEU:O	1:C:121:TYR:CB	0.53	2.57	9	5
1:B:109:LEU:HD23	1:B:179:LEU:CD1	0.53	2.33	8	1
1:B:105:SER:HA	1:B:141:LEU:HD12	0.53	1.81	9	1
1:E:62:THR:CG2	1:E:121:TYR:HB2	0.53	2.33	10	3
1:D:106:LEU:CA	1:D:184:ILE:HG22	0.53	2.33	10	1
1:E:98:ASP:OD1	1:E:150:ALA:HB2	0.53	2.04	10	1
1:C:106:LEU:HD12	1:C:184:ILE:HD12	0.53	1.79	15	1
1:C:21:THR:HB	1:D:23:LEU:HD13	0.52	1.81	13	3
1:C:50:ILE:CG1	1:C:79:ILE:O	0.52	2.58	3	6

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:F:137:VAL:O	1:F:141:LEU:HD12	0.52	2.04	1	1
1:C:43:VAL:HG12	1:C:64:LEU:CD1	0.52	2.34	2	1
1:C:64:LEU:C	1:C:64:LEU:HD23	0.52	2.25	2	2
1:F:48:ARG:HB2	1:F:63:ILE:HG12	0.52	1.80	7	1
1:F:129:GLU:HB2	1:F:133:LEU:HD13	0.52	1.81	15	2
1:A:25:LEU:HD11	1:B:23:LEU:HD22	0.52	1.80	12	1
1:C:94:THR:HB	1:C:145:VAL:HG11	0.52	1.81	13	1
1:B:144:VAL:HG12	1:B:164:ILE:HD12	0.52	1.81	14	1
1:F:43:VAL:CB	1:F:67:GLY:O	0.52	2.57	14	2
1:B:109:LEU:HD23	1:B:180:ASP:OD2	0.52	2.04	15	1
1:D:41:PHE:CG	1:D:71:ARG:CB	0.52	2.93	2	5
1:B:108:VAL:HG22	1:B:168:LEU:HD21	0.52	1.79	2	1
1:C:44:GLU:N	1:C:65:ALA:HA	0.52	2.20	2	3
1:C:51:PHE:O	1:C:52:PHE:CG	0.52	2.62	2	1
1:C:133:LEU:CB	1:C:134:PRO:CD	0.52	2.87	5	14
1:D:149:ASN:O	1:D:153:LEU:HD23	0.52	2.04	2	1
1:B:47:HIS:CD2	1:B:63:ILE:HD11	0.52	2.39	8	2
1:E:117:LEU:O	1:E:121:TYR:HB3	0.52	2.04	4	1
1:F:136:ILE:HD11	1:F:171:ARG:HG2	0.52	1.81	5	1
1:B:61:ASP:HA	1:B:81:TYR:CG	0.52	2.39	1	1
1:B:133:LEU:CB	1:B:134:PRO:CD	0.52	2.87	3	13
1:B:51:PHE:O	1:B:52:PHE:CG	0.52	2.63	3	1
1:E:59:GLN:O	1:E:79:ILE:HD12	0.52	2.05	12	2
1:D:141:LEU:O	1:D:145:VAL:HG22	0.52	2.04	8	1
1:F:64:LEU:HD23	1:F:64:LEU:C	0.52	2.25	14	2
1:E:83:ILE:HD11	1:E:111:ARG:HH21	0.52	1.65	9	1
1:A:17:ARG:O	1:A:21:THR:HG23	0.52	2.04	10	1
1:D:103:ASN:C	1:D:104:ILE:HD12	0.52	2.24	11	1
1:F:108:VAL:HG21	1:F:137:VAL:CG2	0.52	2.34	13	1
1:E:65:ALA:HB2	1:E:115:GLN:HE22	0.52	1.64	14	1
1:E:63:ILE:CG2	1:E:81:TYR:O	0.52	2.57	12	9
1:B:65:ALA:O	1:B:66:GLU:HB2	0.52	2.05	10	8
1:E:34:TYR:CE2	1:F:34:TYR:CZ	0.52	2.98	7	5
1:D:24:LYS:C	1:E:27:LEU:HD11	0.52	2.24	4	1
1:F:106:LEU:HD12	1:F:184:ILE:CG1	0.52	2.35	6	1
1:A:104:ILE:HG21	1:A:144:VAL:HG13	0.52	1.82	7	1
1:B:136:ILE:HD11	1:B:175:PHE:CD1	0.52	2.38	8	1
1:E:154:ILE:HG23	1:E:189:PHE:CZ	0.52	2.39	8	1
1:F:48:ARG:N	1:F:48:ARG:HD3	0.52	2.19	11	1
1:B:144:VAL:HG11	1:B:164:ILE:HD12	0.52	1.80	12	2
1:B:121:TYR:CE1	1:B:126:LEU:HD13	0.52	2.40	13	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:106:LEU:HD22	1:A:184:ILE:HG21	0.52	1.81	14	1
1:C:117:LEU:N	1:C:117:LEU:CD2	0.52	2.71	1	3
1:A:128:TYR:O	1:A:132:VAL:HG23	0.52	2.03	2	1
1:D:50:ILE:CG1	1:D:79:ILE:O	0.52	2.57	10	5
1:B:69:HIS:N	1:B:69:HIS:CD2	0.52	2.78	4	1
1:C:175:PHE:O	1:C:175:PHE:CD2	0.52	2.63	14	2
1:A:79:ILE:HG23	1:A:79:ILE:O	0.52	2.05	7	2
1:C:83:ILE:HD12	1:C:112:PRO:CG	0.52	2.32	7	1
1:E:43:VAL:CG1	1:E:49:ALA:HB2	0.52	2.34	7	4
1:A:43:VAL:HG12	1:A:64:LEU:HD11	0.52	1.80	9	1
1:D:160:VAL:HG12	1:D:164:ILE:HD11	0.52	1.81	10	1
1:B:17:ARG:O	1:B:21:THR:HG23	0.52	2.05	11	1
1:E:157:ARG:O	1:E:160:VAL:HG12	0.52	2.04	14	2
1:C:58:VAL:HG11	1:D:45:GLY:C	0.52	2.23	13	1
1:D:164:ILE:HG22	1:D:168:LEU:HD23	0.52	1.82	13	1
1:F:106:LEU:CB	1:F:184:ILE:HG22	0.52	2.34	14	1
1:F:41:PHE:CG	1:F:71:ARG:HB3	0.52	2.39	5	8
1:F:52:PHE:CE1	1:F:53:ASN:O	0.52	2.63	9	5
1:E:61:ASP:O	1:E:117:LEU:CD1	0.52	2.56	4	1
1:F:106:LEU:HA	1:F:184:ILE:HG21	0.52	1.82	4	1
1:D:43:VAL:CG2	1:D:67:GLY:O	0.52	2.50	5	1
1:B:90:ILE:HD13	1:B:106:LEU:C	0.52	2.25	6	1
1:B:178:ILE:O	1:B:178:ILE:HG23	0.52	2.04	6	1
1:A:62:THR:HB	1:A:117:LEU:HB3	0.52	1.81	7	2
1:A:64:LEU:HD12	1:A:115:GLN:HB2	0.52	1.80	7	1
1:C:25:LEU:HD23	1:D:27:LEU:HD11	0.52	1.80	11	1
1:C:94:THR:HG21	1:C:145:VAL:CB	0.52	2.35	15	1
1:F:64:LEU:HB3	1:F:80:ILE:HG13	0.52	1.80	15	1
1:F:41:PHE:CG	1:F:71:ARG:CB	0.52	2.93	15	7
1:B:63:ILE:HD11	1:B:112:PRO:HB2	0.52	1.82	2	1
1:B:45:GLY:C	1:B:65:ALA:HB1	0.52	2.24	3	2
1:E:49:ALA:CA	1:E:50:ILE:HD13	0.52	2.34	9	5
1:B:88:ARG:HG2	1:B:133:LEU:HD23	0.52	1.82	5	1
1:F:102:VAL:HG13	1:F:153:LEU:HD22	0.52	1.80	5	1
1:B:90:ILE:O	1:B:105:SER:HB3	0.52	2.05	6	1
1:B:43:VAL:HG13	1:B:64:LEU:CG	0.52	2.32	8	4
1:C:25:LEU:HD11	1:D:23:LEU:CD1	0.52	2.34	7	1
1:C:104:ILE:HD12	1:C:104:ILE:N	0.52	2.20	15	2
1:B:168:LEU:HD22	1:B:182:VAL:CG1	0.52	2.34	10	1
1:C:179:LEU:O	1:C:179:LEU:HD12	0.52	2.05	11	1
1:E:50:ILE:HG22	1:E:59:GLN:HG3	0.52	1.79	13	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:D:168:LEU:CD1	1:D:182:VAL:HG21	0.52	2.33	12	1
1:C:124:LEU:HD21	1:C:128:TYR:HD2	0.52	1.59	14	1
1:E:136:ILE:HD11	1:E:171:ARG:HG3	0.52	1.81	14	1
1:F:49:ALA:HB1	1:F:70:PHE:CE2	0.52	2.40	15	2
1:C:63:ILE:CG2	1:C:81:TYR:O	0.52	2.58	14	6
1:D:133:LEU:CB	1:D:134:PRO:CD	0.52	2.88	9	15
1:B:45:GLY:HA2	1:B:66:GLU:CA	0.52	2.33	2	1
1:A:62:THR:HG23	1:A:121:TYR:CD1	0.52	2.40	4	1
1:F:58:VAL:HG23	1:F:121:TYR:OH	0.52	2.05	5	1
1:C:48:ARG:CG	1:C:64:LEU:C	0.52	2.78	7	1
1:C:111:ARG:N	1:C:178:ILE:HD11	0.52	2.20	13	2
1:A:25:LEU:HD11	1:B:23:LEU:CD2	0.52	2.34	9	1
1:A:129:GLU:CG	1:A:133:LEU:HD12	0.52	2.34	11	1
1:C:43:VAL:C	1:C:66:GLU:H	0.52	2.08	11	1
1:C:83:ILE:N	1:C:83:ILE:CD1	0.52	2.73	11	1
1:D:104:ILE:CG2	1:D:144:VAL:HG21	0.52	2.28	12	1
1:D:25:LEU:HD22	1:E:27:LEU:HD11	0.52	1.80	13	1
1:B:62:THR:N	1:B:81:TYR:CB	0.52	2.73	1	1
1:D:106:LEU:HD11	1:D:164:ILE:HG21	0.52	1.81	3	2
1:A:90:ILE:CG2	1:A:184:ILE:HG21	0.52	2.35	3	1
1:C:28:GLY:HA2	1:D:27:LEU:HD21	0.52	1.82	3	1
1:A:64:LEU:N	1:A:80:ILE:HD13	0.52	2.20	9	1
1:F:160:VAL:O	1:F:164:ILE:HG22	0.52	2.05	10	1
1:D:105:SER:HA	1:D:141:LEU:HD12	0.52	1.82	12	1
1:D:106:LEU:HG	1:D:137:VAL:HG12	0.52	1.82	13	1
1:A:107:ARG:CB	1:A:184:ILE:HD13	0.52	2.35	14	1
1:F:69:HIS:O	1:F:70:PHE:CD2	0.52	2.63	14	2
1:F:69:HIS:O	1:F:70:PHE:HB2	0.52	2.05	15	2
1:D:132:VAL:HG13	1:D:175:PHE:CZ	0.52	2.40	1	1
1:C:64:LEU:HD13	1:C:70:PHE:CZ	0.52	2.40	2	1
1:C:94:THR:O	1:C:102:VAL:HG11	0.52	2.05	3	1
1:C:62:THR:HG22	1:C:117:LEU:HB3	0.52	1.82	8	3
1:A:48:ARG:HG2	1:A:63:ILE:HB	0.52	1.80	5	2
1:C:63:ILE:CA	1:C:81:TYR:O	0.52	2.57	10	1
1:B:144:VAL:HG22	1:B:148:PHE:CD1	0.52	2.39	11	1
1:F:48:ARG:HB2	1:F:63:ILE:HG22	0.52	1.82	11	1
1:E:144:VAL:HG11	1:E:164:ILE:CG2	0.52	2.33	13	1
1:F:43:VAL:HA	1:F:64:LEU:HD21	0.52	1.82	14	1
1:F:51:PHE:O	1:F:52:PHE:CG	0.52	2.63	14	2
1:B:52:PHE:HB2	1:B:59:GLN:HG3	0.51	1.81	1	1
1:B:153:LEU:C	1:B:153:LEU:HD23	0.51	2.26	1	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:106:LEU:HA	1:B:184:ILE:HG21	0.51	1.80	11	3
1:A:106:LEU:HA	1:A:184:ILE:HG22	0.51	1.81	4	2
1:F:184:ILE:HD13	1:F:184:ILE:N	0.51	2.20	5	2
1:D:104:ILE:HD12	1:D:104:ILE:N	0.51	2.20	7	2
1:A:50:ILE:HG13	1:A:117:LEU:HD11	0.51	1.79	11	1
1:D:90:ILE:HD11	1:D:186:GLU:CG	0.51	2.35	11	1
1:C:53:ASN:O	1:C:55:ILE:N	0.51	2.42	13	1
1:F:121:TYR:CD2	1:F:122:GLN:N	0.51	2.78	13	1
1:C:124:LEU:HD13	1:C:175:PHE:CB	0.51	2.35	14	1
1:F:43:VAL:HB	1:F:67:GLY:O	0.51	2.05	14	2
1:C:59:GLN:HA	1:C:121:TYR:CE1	0.51	2.40	1	1
1:D:108:VAL:HG23	1:D:137:VAL:HG22	0.51	1.82	1	1
1:A:49:ALA:CA	1:A:50:ILE:HD12	0.51	2.35	5	6
1:B:165:ARG:HA	1:B:182:VAL:HG11	0.51	1.81	3	1
1:C:52:PHE:CE1	1:C:53:ASN:O	0.51	2.63	15	6
1:D:165:ARG:HB2	1:D:182:VAL:HG11	0.51	1.81	10	3
1:B:25:LEU:HD11	1:C:23:LEU:HD21	0.51	1.80	7	2
1:B:25:LEU:HD13	1:C:27:LEU:HD21	0.51	1.81	8	1
1:B:104:ILE:HG22	1:B:141:LEU:HD11	0.51	1.82	8	1
1:B:55:ILE:CD1	1:C:68:LEU:HD22	0.51	2.30	9	1
1:D:49:ALA:HB1	1:D:70:PHE:CE2	0.51	2.40	9	1
1:B:128:TYR:CD1	1:B:128:TYR:N	0.51	2.76	10	1
1:E:83:ILE:HG22	1:E:112:PRO:CG	0.51	2.36	10	1
1:E:148:PHE:CE2	1:E:160:VAL:HG13	0.51	2.40	10	1
1:F:106:LEU:HD12	1:F:141:LEU:HD13	0.51	1.82	15	1
1:A:133:LEU:CB	1:A:134:PRO:CD	0.51	2.87	8	12
1:B:34:TYR:CE2	1:C:34:TYR:CZ	0.51	2.98	9	7
1:C:52:PHE:CD1	1:C:58:VAL:HG23	0.51	2.41	2	1
1:C:64:LEU:HB3	1:C:80:ILE:CG2	0.51	2.35	11	2
1:C:161:SER:OG	1:C:184:ILE:HG22	0.51	2.05	3	1
1:D:129:GLU:HA	1:D:133:LEU:HD23	0.51	1.82	3	1
1:A:52:PHE:CE1	1:A:77:TYR:HB3	0.51	2.41	4	1
1:B:43:VAL:C	1:B:66:GLU:H	0.51	2.08	8	6
1:B:184:ILE:O	1:B:184:ILE:HD12	0.51	2.05	8	1
1:D:106:LEU:N	1:D:141:LEU:HD13	0.51	2.20	11	1
1:D:148:PHE:CE1	1:D:163:LEU:HD22	0.51	2.40	1	1
1:E:124:LEU:HD13	1:E:124:LEU:O	0.51	2.05	9	2
1:F:50:ILE:CG1	1:F:79:ILE:O	0.51	2.58	3	5
1:F:63:ILE:CG2	1:F:81:TYR:O	0.51	2.58	10	8
1:B:43:VAL:CG2	1:B:65:ALA:HA	0.51	2.36	2	1
1:D:95:GLY:HA3	1:D:102:VAL:HG12	0.51	1.82	3	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:F:175:PHE:O	1:F:175:PHE:CD2	0.51	2.62	3	1
1:A:129:GLU:CA	1:A:133:LEU:HD12	0.51	2.36	4	1
1:F:94:THR:CG2	1:F:145:VAL:HG11	0.51	2.36	4	1
1:A:57:GLY:O	1:A:58:VAL:HG13	0.51	2.06	5	1
1:B:48:ARG:HB2	1:B:63:ILE:CG2	0.51	2.35	5	1
1:C:149:ASN:O	1:C:153:LEU:HD12	0.51	2.05	7	1
1:B:63:ILE:HG12	1:B:117:LEU:HD13	0.51	1.83	9	1
1:A:41:PHE:CZ	1:A:72:ILE:HD11	0.51	2.40	10	1
1:A:108:VAL:CG1	1:A:133:LEU:HD23	0.51	2.35	12	1
1:C:148:PHE:CE1	1:C:163:LEU:HD12	0.51	2.40	12	1
1:D:92:SER:HB3	1:D:141:LEU:HD11	0.51	1.83	12	1
1:B:121:TYR:CD1	1:B:122:GLN:N	0.51	2.78	15	1
1:C:48:ARG:O	1:C:80:ILE:HG23	0.51	2.05	1	2
1:A:72:ILE:N	1:A:73:PRO:HD2	0.51	2.21	3	1
1:B:63:ILE:HD12	1:B:81:TYR:O	0.51	2.05	3	3
1:B:64:LEU:CB	1:B:80:ILE:HB	0.51	2.35	13	8
1:D:34:TYR:CE1	1:E:34:TYR:CZ	0.51	2.99	6	3
1:D:106:LEU:N	1:D:141:LEU:HD11	0.51	2.20	4	1
1:E:50:ILE:CG1	1:E:79:ILE:O	0.51	2.58	9	5
1:A:54:ARG:CB	1:B:68:LEU:HD12	0.51	2.36	5	1
1:F:63:ILE:H	1:F:117:LEU:HB2	0.51	1.66	10	3
1:C:48:ARG:HB2	1:C:63:ILE:HG12	0.51	1.82	6	2
1:E:106:LEU:CB	1:E:141:LEU:HD12	0.51	2.35	6	1
1:E:108:VAL:HG13	1:E:137:VAL:HG22	0.51	1.83	6	1
1:B:61:ASP:OD2	1:B:117:LEU:HD12	0.51	2.06	7	1
1:B:153:LEU:HD12	1:B:188:SER:HB3	0.51	1.82	9	1
1:E:90:ILE:HD13	1:E:141:LEU:HD13	0.51	1.82	9	1
1:C:25:LEU:HD21	1:D:23:LEU:HD22	0.51	1.81	10	1
1:D:41:PHE:CD1	1:D:71:ARG:N	0.51	2.79	10	1
1:E:168:LEU:CD2	1:E:182:VAL:HG22	0.51	2.34	12	1
1:F:164:ILE:HG22	1:F:168:LEU:CD1	0.51	2.28	12	1
1:F:88:ARG:HD2	1:F:133:LEU:HD23	0.51	1.81	14	1
1:E:62:THR:CA	1:E:117:LEU:HB3	0.51	2.36	12	6
1:E:133:LEU:CB	1:E:134:PRO:CD	0.51	2.89	13	14
1:F:50:ILE:CG1	1:F:80:ILE:HA	0.51	2.36	3	3
1:A:42:THR:HG23	1:A:42:THR:O	0.51	2.05	12	4
1:B:49:ALA:HB1	1:B:70:PHE:CE1	0.51	2.39	2	1
1:C:63:ILE:CG1	1:C:81:TYR:O	0.51	2.59	11	2
1:E:106:LEU:HB2	1:E:184:ILE:HG22	0.51	1.83	2	1
1:C:62:THR:CB	1:C:117:LEU:HB3	0.51	2.35	14	4
1:D:72:ILE:CG2	1:D:73:PRO:HD2	0.51	2.36	8	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:F:106:LEU:N	1:F:106:LEU:CD1	0.51	2.69	3	1
1:B:43:VAL:HG12	1:B:64:LEU:CD1	0.51	2.35	6	2
1:E:63:ILE:H	1:E:117:LEU:HG	0.51	1.64	12	3
1:B:43:VAL:CG2	1:B:67:GLY:O	0.51	2.59	10	7
1:B:70:PHE:CD2	1:B:78:PRO:HB3	0.51	2.40	8	1
1:C:132:VAL:HG22	1:C:175:PHE:CZ	0.51	2.41	9	1
1:F:41:PHE:CD1	1:F:71:ARG:N	0.51	2.79	9	1
1:C:168:LEU:O	1:C:168:LEU:HD13	0.51	2.05	14	1
1:D:168:LEU:HD22	1:D:182:VAL:HG11	0.51	1.81	1	1
1:B:23:LEU:HD12	1:B:23:LEU:C	0.51	2.26	2	1
1:C:105:SER:O	1:C:184:ILE:HG22	0.51	2.06	2	1
1:C:132:VAL:CG1	1:C:136:ILE:HD11	0.51	2.36	2	1
1:F:48:ARG:HD2	1:F:65:ALA:HA	0.51	1.82	3	2
1:A:34:TYR:CE2	1:B:34:TYR:CZ	0.51	2.99	15	6
1:C:121:TYR:CD1	1:C:122:GLN:N	0.51	2.79	11	2
1:F:117:LEU:CD1	1:F:118:PRO:HD3	0.51	2.35	3	1
1:C:117:LEU:O	1:C:121:TYR:HB2	0.51	2.04	4	3
1:B:41:PHE:CB	1:B:71:ARG:HB3	0.51	2.35	6	6
1:B:106:LEU:HD13	1:B:164:ILE:CG2	0.51	2.36	13	2
1:D:108:VAL:CG2	1:D:168:LEU:HD11	0.51	2.31	6	1
1:C:52:PHE:CE2	1:C:79:ILE:HB	0.51	2.40	7	1
1:C:106:LEU:HD11	1:C:137:VAL:HG22	0.51	1.81	11	1
1:C:182:VAL:O	1:C:182:VAL:HG13	0.51	2.05	14	2
1:A:23:LEU:CD2	1:F:25:LEU:HD11	0.51	2.36	14	1
1:A:108:VAL:HG22	1:A:168:LEU:HD11	0.51	1.80	15	1
1:D:106:LEU:HB2	1:D:184:ILE:HG22	0.51	1.82	15	1
1:F:50:ILE:CG1	1:F:62:THR:O	0.51	2.59	15	1
1:A:50:ILE:HG12	1:A:62:THR:CB	0.51	2.35	4	2
1:C:54:ARG:HB2	1:D:68:LEU:HD23	0.51	1.82	3	1
1:B:70:PHE:O	1:B:71:ARG:C	0.51	2.49	14	4
1:C:64:LEU:HD13	1:C:80:ILE:CG2	0.51	2.36	10	1
1:D:105:SER:C	1:D:141:LEU:HD13	0.51	2.25	11	1
1:C:47:HIS:N	1:C:65:ALA:O	0.51	2.44	11	2
1:B:166:ARG:O	1:B:169:THR:HG22	0.51	2.05	3	1
1:C:102:VAL:HA	1:C:153:LEU:HD11	0.51	1.81	3	1
1:C:168:LEU:CD1	1:C:182:VAL:HG11	0.51	2.36	3	1
1:D:120:MET:HB3	1:D:124:LEU:HD23	0.51	1.81	3	1
1:F:27:LEU:O	1:F:27:LEU:HD23	0.51	2.05	7	3
1:C:104:ILE:HG21	1:C:145:VAL:CG2	0.51	2.35	7	1
1:A:108:VAL:HG23	1:A:137:VAL:CG2	0.51	2.36	8	1
1:E:153:LEU:C	1:E:153:LEU:HD23	0.51	2.26	8	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:C:144:VAL:CG1	1:C:164:ILE:HD11	0.51	2.27	9	1
1:C:109:LEU:HB2	1:C:182:VAL:HG22	0.51	1.81	10	1
1:D:129:GLU:O	1:D:133:LEU:HB2	0.51	2.05	11	1
1:E:93:PRO:HD2	1:F:158:ALA:HB2	0.51	1.81	13	1
1:F:61:ASP:C	1:F:62:THR:HG23	0.51	2.26	14	1
1:F:43:VAL:HA	1:F:64:LEU:HD23	0.51	1.82	15	1
1:B:62:THR:HG22	1:B:117:LEU:O	0.51	2.06	1	4
1:A:62:THR:HG22	1:A:117:LEU:HB3	0.51	1.83	2	2
1:F:48:ARG:CD	1:F:65:ALA:HA	0.51	2.36	2	2
1:B:34:TYR:CE1	1:C:34:TYR:CZ	0.51	2.98	4	5
1:D:43:VAL:HG23	1:D:43:VAL:O	0.51	2.05	12	5
1:D:140:VAL:CG1	1:D:164:ILE:HD11	0.51	2.34	6	1
1:D:129:GLU:OE1	1:D:177:LEU:HD11	0.51	2.06	7	1
1:F:128:TYR:CD1	1:F:128:TYR:N	0.51	2.75	8	1
1:E:109:LEU:O	1:E:179:LEU:HD22	0.51	2.06	15	1
1:F:43:VAL:C	1:F:65:ALA:HA	0.51	2.26	15	1
1:B:152:GLN:O	1:B:156:GLN:N	0.50	2.42	1	1
1:C:120:MET:O	1:C:124:LEU:N	0.50	2.43	6	9
1:F:102:VAL:CG2	1:F:153:LEU:HD22	0.50	2.35	1	1
1:A:165:ARG:CB	1:A:182:VAL:HG11	0.50	2.36	10	5
1:C:49:ALA:CA	1:C:50:ILE:HD12	0.50	2.36	13	7
1:D:24:LYS:O	1:E:27:LEU:HD11	0.50	2.06	4	1
1:D:69:HIS:O	1:D:70:PHE:CD2	0.50	2.64	5	1
1:E:43:VAL:HG23	1:E:66:GLU:OE1	0.50	2.06	5	1
1:D:105:SER:HB3	1:D:184:ILE:HD13	0.50	1.82	6	1
1:A:165:ARG:HG3	1:A:182:VAL:HG11	0.50	1.82	11	2
1:B:189:PHE:CZ	1:C:187:LEU:HD21	0.50	2.41	9	1
1:D:75:PHE:CD1	1:D:75:PHE:N	0.50	2.78	10	1
1:F:108:VAL:HG13	1:F:137:VAL:HG22	0.50	1.82	10	1
1:B:103:ASN:HB2	1:B:187:LEU:O	0.50	2.06	13	1
1:B:130:GLU:O	1:B:134:PRO:CD	0.50	2.59	4	8
1:D:89:LYS:HG3	1:D:184:ILE:HD11	0.50	1.81	1	1
1:A:68:LEU:HB2	1:F:54:ARG:CG	0.50	2.36	2	1
1:E:41:PHE:HB3	1:E:71:ARG:HB2	0.50	1.83	3	6
1:B:64:LEU:HD23	1:B:64:LEU:C	0.50	2.26	6	8
1:D:106:LEU:HD21	1:D:168:LEU:CD2	0.50	2.36	4	1
1:E:157:ARG:O	1:E:160:VAL:HG22	0.50	2.06	4	1
1:E:61:ASP:O	1:E:62:THR:HG23	0.50	2.07	5	1
1:C:48:ARG:N	1:C:48:ARG:HD3	0.50	2.21	7	1
1:C:106:LEU:CB	1:C:141:LEU:HD21	0.50	2.34	8	2
1:E:106:LEU:HD11	1:E:182:VAL:CG1	0.50	2.36	7	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:C:59:GLN:CG	1:C:79:ILE:HG21	0.50	2.36	8	1
1:C:54:ARG:HB3	1:D:68:LEU:HD23	0.50	1.82	9	2
1:F:106:LEU:HD12	1:F:184:ILE:HG21	0.50	1.83	10	1
1:A:104:ILE:HD13	1:A:104:ILE:C	0.50	2.26	12	1
1:C:52:PHE:CZ	1:C:58:VAL:HG12	0.50	2.41	12	1
1:A:117:LEU:O	1:A:121:TYR:HB2	0.50	2.06	2	6
1:D:129:GLU:HB3	1:D:133:LEU:HD13	0.50	1.83	2	1
1:E:48:ARG:HG2	1:E:63:ILE:HD12	0.50	1.83	3	1
1:D:34:TYR:CE2	1:E:34:TYR:CZ	0.50	2.99	5	4
1:A:34:TYR:CE1	1:F:34:TYR:CD2	0.50	2.99	9	1
1:D:28:GLY:HA3	1:E:27:LEU:HD11	0.50	1.83	10	1
1:E:175:PHE:O	1:E:175:PHE:CD1	0.50	2.65	11	1
1:E:140:VAL:HG12	1:E:144:VAL:CG2	0.50	2.36	12	1
1:A:63:ILE:HG12	1:A:117:LEU:HD22	0.50	1.83	15	1
1:B:153:LEU:O	1:B:153:LEU:HD23	0.50	2.06	2	1
1:F:144:VAL:HG13	1:F:163:LEU:HD23	0.50	1.83	2	1
1:F:186:GLU:O	1:F:187:LEU:HD12	0.50	2.07	6	3
1:A:34:TYR:CZ	1:F:34:TYR:CE1	0.50	3.00	5	4
1:A:90:ILE:HB	1:A:105:SER:C	0.50	2.27	3	1
1:B:64:LEU:CB	1:B:80:ILE:CB	0.50	2.90	15	7
1:F:117:LEU:HD13	1:F:117:LEU:C	0.50	2.26	3	1
1:E:50:ILE:CG1	1:E:80:ILE:HA	0.50	2.36	12	3
1:E:165:ARG:O	1:E:169:THR:HG23	0.50	2.06	5	1
1:B:90:ILE:N	1:B:90:ILE:CD1	0.50	2.74	6	1
1:B:102:VAL:HG13	1:B:104:ILE:CD1	0.50	2.36	6	1
1:F:105:SER:HB2	1:F:186:GLU:HB2	0.50	1.82	6	2
1:C:79:ILE:HG22	1:C:79:ILE:O	0.50	2.06	7	1
1:F:121:TYR:CD1	1:F:122:GLN:N	0.50	2.79	9	2
1:A:28:GLY:CA	1:B:27:LEU:HD21	0.50	2.37	9	1
1:C:62:THR:HA	1:C:117:LEU:HD22	0.50	1.82	11	1
1:E:189:PHE:CZ	1:F:187:LEU:HD22	0.50	2.41	12	1
1:F:129:GLU:O	1:F:133:LEU:HD23	0.50	2.06	12	1
1:E:186:GLU:O	1:E:187:LEU:HD12	0.50	2.05	13	1
1:F:43:VAL:HG13	1:F:64:LEU:CG	0.50	2.30	14	1
1:A:68:LEU:HD13	1:F:54:ARG:HD2	0.50	1.82	2	1
1:C:132:VAL:HG12	1:C:136:ILE:CD1	0.50	2.36	2	1
1:B:117:LEU:HG	1:B:118:PRO:CD	0.50	2.36	4	1
1:D:58:VAL:HG11	1:E:45:GLY:CA	0.50	2.36	4	1
1:B:41:PHE:CD2	1:B:42:THR:N	0.50	2.80	6	1
1:C:89:LYS:C	1:C:90:ILE:HD12	0.50	2.27	13	3
1:D:116:GLU:CG	1:D:178:ILE:HD11	0.50	2.37	7	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:108:VAL:HG11	1:B:136:ILE:HD11	0.50	1.79	9	1
1:E:41:PHE:CD2	1:E:71:ARG:CG	0.50	2.94	13	2
1:F:58:VAL:C	1:F:59:GLN:CG	0.50	2.79	15	1
1:F:68:LEU:C	1:F:68:LEU:HD12	0.50	2.27	15	1
1:A:148:PHE:CZ	1:A:160:VAL:HG22	0.50	2.41	1	1
1:D:49:ALA:CA	1:D:50:ILE:HD12	0.50	2.36	13	7
1:E:102:VAL:HG13	1:E:153:LEU:HD13	0.50	1.84	1	1
1:A:34:TYR:CE1	1:B:34:TYR:CZ	0.50	2.99	5	5
1:D:50:ILE:HG13	1:D:79:ILE:O	0.50	2.07	5	4
1:F:94:THR:HG21	1:F:142:LYS:HG2	0.50	1.83	2	1
1:F:160:VAL:HG22	1:F:164:ILE:HD11	0.50	1.83	2	1
1:B:41:PHE:CB	1:B:71:ARG:CB	0.50	2.90	8	8
1:A:141:LEU:HD23	1:A:142:LYS:N	0.50	2.22	5	2
1:E:50:ILE:CG2	1:E:62:THR:O	0.50	2.60	5	2
1:A:124:LEU:HD13	1:A:124:LEU:O	0.50	2.06	6	1
1:D:104:ILE:HD13	1:D:145:VAL:CG2	0.50	2.26	6	1
1:E:50:ILE:CG1	1:E:62:THR:HB	0.50	2.37	7	1
1:B:69:HIS:O	1:B:70:PHE:CG	0.50	2.64	8	1
1:F:161:SER:HA	1:F:164:ILE:HD12	0.50	1.84	8	1
1:C:63:ILE:HD12	1:C:117:LEU:CD1	0.50	2.37	10	1
1:F:65:ALA:O	1:F:66:GLU:HB2	0.50	2.06	14	1
1:B:25:LEU:HD22	1:C:27:LEU:HD21	0.50	1.82	15	1
1:B:63:ILE:CG2	1:B:81:TYR:O	0.50	2.60	1	3
1:B:72:ILE:N	1:B:73:PRO:HD2	0.50	2.22	2	5
1:C:106:LEU:HD11	1:C:164:ILE:HG21	0.50	1.82	3	2
1:F:133:LEU:CB	1:F:134:PRO:HD3	0.50	2.37	3	11
1:A:50:ILE:CG2	1:A:62:THR:HB	0.50	2.37	3	1
1:C:160:VAL:CG2	1:C:164:ILE:HD11	0.50	2.35	3	1
1:F:106:LEU:HD21	1:F:164:ILE:HD12	0.50	1.82	4	1
1:A:34:TYR:CZ	1:F:34:TYR:CE2	0.50	2.99	7	2
1:B:47:HIS:ND1	1:B:63:ILE:HD12	0.50	2.22	6	1
1:C:62:THR:CG2	1:C:121:TYR:HB2	0.50	2.36	6	2
1:D:41:PHE:CD1	1:D:42:THR:N	0.50	2.79	9	2
1:D:43:VAL:HG13	1:D:43:VAL:O	0.50	2.06	7	2
1:F:154:ILE:HG22	1:F:188:SER:HB3	0.50	1.84	7	1
1:D:41:PHE:CG	1:D:71:ARG:HA	0.50	2.42	8	1
1:A:34:TYR:CE1	1:F:34:TYR:CE2	0.50	3.00	9	1
1:B:64:LEU:CD1	1:B:70:PHE:CZ	0.50	2.95	14	2
1:F:79:ILE:HD12	1:F:79:ILE:O	0.50	2.06	10	1
1:C:43:VAL:HG23	1:C:67:GLY:O	0.50	2.06	11	1
1:F:117:LEU:HD13	1:F:120:MET:SD	0.50	2.46	12	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:50:ILE:H	1:B:50:ILE:CD1	0.50	2.14	13	1
1:E:128:TYR:CD1	1:E:129:GLU:N	0.50	2.79	13	1
1:A:54:ARG:HB2	1:B:68:LEU:HD23	0.50	1.83	14	1
1:D:106:LEU:HD11	1:D:164:ILE:CB	0.50	2.33	14	1
1:A:68:LEU:N	1:A:68:LEU:CD2	0.50	2.73	1	1
1:B:62:THR:HG21	1:B:121:TYR:CB	0.50	2.35	1	1
1:A:22:ALA:HA	1:A:25:LEU:HD12	0.50	1.81	2	1
1:A:102:VAL:CG1	1:A:150:ALA:HB2	0.50	2.37	2	1
1:B:53:ASN:O	1:B:55:ILE:N	0.50	2.45	10	2
1:A:90:ILE:HD13	1:A:90:ILE:O	0.50	2.06	3	1
1:B:43:VAL:HB	1:B:65:ALA:CA	0.50	2.37	6	2
1:E:41:PHE:O	1:E:70:PHE:CD2	0.50	2.65	4	1
1:B:62:THR:HG22	1:B:117:LEU:C	0.50	2.26	5	3
1:A:106:LEU:HB2	1:A:141:LEU:HD13	0.50	1.84	6	1
1:E:104:ILE:HD11	1:E:184:ILE:CD1	0.50	2.32	6	1
1:A:43:VAL:HG11	1:A:47:HIS:O	0.50	2.07	11	3
1:E:187:LEU:HD12	1:E:187:LEU:O	0.50	2.07	7	2
1:B:184:ILE:HD12	1:B:184:ILE:C	0.50	2.27	8	1
1:F:102:VAL:HG11	1:F:150:ALA:HA	0.50	1.83	8	1
1:E:10:GLY:O	1:E:14:ALA:HB2	0.50	2.07	9	1
1:F:53:ASN:O	1:F:55:ILE:N	0.50	2.44	9	2
1:B:164:ILE:HG22	1:B:168:LEU:HD13	0.50	1.82	10	1
1:A:50:ILE:HG12	1:A:117:LEU:HD11	0.50	1.80	11	1
1:A:106:LEU:HD13	1:A:164:ILE:HG21	0.50	1.83	11	1
1:C:43:VAL:HG12	1:C:65:ALA:C	0.50	2.27	11	1
1:C:113:ASN:O	1:C:114:ALA:HB3	0.50	2.07	11	1
1:C:133:LEU:O	1:C:137:VAL:HG12	0.50	2.07	12	1
1:E:59:GLN:HB3	1:E:79:ILE:HD12	0.50	1.83	13	1
1:E:34:TYR:CE1	1:F:34:TYR:CZ	0.50	3.00	5	6
1:E:49:ALA:CA	1:E:50:ILE:HD12	0.50	2.37	7	8
1:C:79:ILE:N	1:C:79:ILE:HD12	0.50	2.21	2	1
1:A:106:LEU:HD12	1:A:184:ILE:CG1	0.50	2.36	3	1
1:A:187:LEU:HD22	1:F:93:PRO:HG3	0.50	1.84	3	1
1:C:168:LEU:HD12	1:C:182:VAL:HG11	0.50	1.83	3	1
1:D:132:VAL:HG13	1:D:136:ILE:CD1	0.50	2.37	3	1
1:E:41:PHE:CB	1:E:71:ARG:CB	0.50	2.89	4	1
1:D:69:HIS:O	1:D:70:PHE:HB2	0.50	2.07	6	2
1:A:183:ALA:C	1:A:184:ILE:HD12	0.50	2.28	8	1
1:E:34:TYR:CE2	1:F:34:TYR:CE2	0.50	3.00	8	1
1:F:130:GLU:O	1:F:134:PRO:CG	0.50	2.59	8	2
1:F:114:ALA:HB2	1:F:179:LEU:CD1	0.50	2.37	9	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:C:126:LEU:HD12	1:C:126:LEU:O	0.50	2.07	11	1
1:E:129:GLU:O	1:E:133:LEU:HD12	0.50	2.07	11	2
1:F:48:ARG:O	1:F:63:ILE:C	0.50	2.50	14	2
1:E:34:TYR:CD1	1:F:34:TYR:CE2	0.50	2.99	15	1
1:F:106:LEU:HD21	1:F:137:VAL:HG11	0.50	1.83	15	1
1:B:58:VAL:HG11	1:C:66:GLU:OE1	0.49	2.07	1	1
1:E:41:PHE:CG	1:E:71:ARG:HB3	0.49	2.42	11	8
1:B:46:GLY:O	1:B:47:HIS:CD2	0.49	2.65	2	5
1:D:102:VAL:HG23	1:D:102:VAL:O	0.49	2.07	2	1
1:D:94:THR:HG23	1:D:94:THR:O	0.49	2.05	8	2
1:E:117:LEU:O	1:E:121:TYR:CB	0.49	2.60	11	2
1:F:117:LEU:O	1:F:121:TYR:HB2	0.49	2.05	14	5
1:A:48:ARG:O	1:A:80:ILE:HG23	0.49	2.06	7	3
1:D:117:LEU:O	1:D:121:TYR:CB	0.49	2.60	7	2
1:A:102:VAL:CG1	1:A:153:LEU:HD13	0.49	2.37	8	1
1:B:108:VAL:HG12	1:B:137:VAL:CG2	0.49	2.37	10	4
1:A:83:ILE:HD11	1:A:113:ASN:HB3	0.49	1.82	9	1
1:B:95:GLY:HA2	1:B:102:VAL:HG12	0.49	1.84	9	1
1:E:63:ILE:H	1:E:117:LEU:HB2	0.49	1.67	9	2
1:D:141:LEU:C	1:D:141:LEU:HD23	0.49	2.28	12	1
1:C:106:LEU:HD12	1:C:184:ILE:CG1	0.49	2.36	14	1
1:F:165:ARG:HB2	1:F:182:VAL:HG11	0.49	1.84	15	1
1:A:133:LEU:CB	1:A:134:PRO:HD3	0.49	2.37	15	6
1:C:12:LEU:CB	1:C:13:PRO:CD	0.49	2.91	15	15
1:D:141:LEU:O	1:D:145:VAL:HG12	0.49	2.06	13	3
1:B:58:VAL:HG11	1:C:66:GLU:HG2	0.49	1.84	2	1
1:C:43:VAL:HA	1:C:64:LEU:HD21	0.49	1.82	2	1
1:D:130:GLU:O	1:D:134:PRO:CG	0.49	2.60	3	3
1:B:52:PHE:CE1	1:B:121:TYR:CD2	0.49	3.00	3	1
1:C:130:GLU:O	1:C:134:PRO:CD	0.49	2.61	15	9
1:D:136:ILE:HD11	1:D:175:PHE:CE1	0.49	2.42	3	1
1:A:128:TYR:CE1	1:A:132:VAL:HG11	0.49	2.42	4	1
1:E:165:ARG:HB2	1:E:182:VAL:HG11	0.49	1.83	4	1
1:B:105:SER:HA	1:B:141:LEU:HD11	0.49	1.83	5	1
1:D:108:VAL:CG1	1:D:133:LEU:HD23	0.49	2.37	5	1
1:C:165:ARG:HB2	1:C:182:VAL:HG11	0.49	1.83	7	1
1:B:148:PHE:CD2	1:B:160:VAL:HG23	0.49	2.42	10	1
1:A:72:ILE:CG2	1:A:73:PRO:HD2	0.49	2.36	12	1
1:C:34:TYR:CE1	1:D:34:TYR:CZ	0.49	2.99	9	6
1:C:104:ILE:HG21	1:C:145:VAL:HB	0.49	1.83	1	1
1:C:133:LEU:O	1:C:137:VAL:HG23	0.49	2.07	1	5

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:D:12:LEU:CB	1:D:13:PRO:CD	0.49	2.89	15	15
1:D:41:PHE:CG	1:D:71:ARG:HB3	0.49	2.42	15	6
1:B:43:VAL:HG12	1:B:64:LEU:CD2	0.49	2.36	4	2
1:D:52:PHE:CZ	1:D:58:VAL:HG22	0.49	2.41	6	1
1:F:50:ILE:CG2	1:F:62:THR:HB	0.49	2.35	14	4
1:C:62:THR:C	1:C:117:LEU:HB2	0.49	2.27	7	1
1:F:50:ILE:HG12	1:F:62:THR:HB	0.49	1.84	15	2
1:A:150:ALA:O	1:A:154:ILE:HD12	0.49	2.07	8	1
1:A:165:ARG:NH1	1:A:169:THR:HG21	0.49	2.22	11	1
1:E:110:SER:CB	1:E:177:LEU:HD21	0.49	2.38	13	1
1:F:79:ILE:HD12	1:F:79:ILE:N	0.49	2.21	15	1
1:C:34:TYR:CE2	1:D:34:TYR:CZ	0.49	3.01	7	5
1:C:62:THR:CA	1:C:117:LEU:HB3	0.49	2.37	11	3
1:D:137:VAL:HG23	1:D:138:ASN:N	0.49	2.23	9	3
1:E:73:PRO:O	1:E:74:TRP:CB	0.49	2.60	7	1
1:B:177:LEU:HD12	1:B:177:LEU:O	0.49	2.07	8	1
1:C:50:ILE:HD11	1:C:62:THR:O	0.49	2.07	8	2
1:A:64:LEU:O	1:A:65:ALA:HB2	0.49	2.07	9	1
1:B:42:THR:C	1:B:43:VAL:HG23	0.49	2.28	15	3
1:D:165:ARG:CG	1:D:182:VAL:HG21	0.49	2.37	11	2
1:C:165:ARG:CA	1:C:182:VAL:HG21	0.49	2.30	11	1
1:E:164:ILE:CG2	1:E:168:LEU:HD23	0.49	2.37	11	1
1:E:72:ILE:N	1:E:72:ILE:HD12	0.49	2.22	13	1
1:F:63:ILE:O	1:F:64:LEU:HB2	0.49	2.08	15	1
1:B:62:THR:C	1:B:81:TYR:H	0.49	2.09	2	8
1:B:45:GLY:O	1:B:65:ALA:HB1	0.49	2.08	3	1
1:E:62:THR:N	1:E:81:TYR:CB	0.49	2.76	10	5
1:D:116:GLU:OE2	1:D:178:ILE:HD11	0.49	2.07	7	1
1:A:111:ARG:HD2	1:A:179:LEU:HD11	0.49	1.84	8	1
1:B:124:LEU:HD23	1:B:128:TYR:CG	0.49	2.43	9	1
1:C:151:SER:O	1:C:154:ILE:HG22	0.49	2.08	13	2
1:C:109:LEU:HB3	1:C:182:VAL:HG22	0.49	1.83	10	1
1:F:124:LEU:HD23	1:F:128:TYR:CD2	0.49	2.42	11	1
1:B:106:LEU:CD2	1:B:168:LEU:HD12	0.49	2.38	14	1
1:F:64:LEU:HB3	1:F:80:ILE:CG2	0.49	2.37	14	1
1:C:41:PHE:CG	1:C:71:ARG:CB	0.49	2.96	3	6
1:C:43:VAL:HG12	1:C:64:LEU:CD2	0.49	2.37	2	1
1:B:63:ILE:HG12	1:B:117:LEU:HD22	0.49	1.85	9	3
1:B:134:PRO:O	1:B:138:ASN:N	0.49	2.44	4	1
1:E:58:VAL:HG21	1:F:46:GLY:HA2	0.49	1.83	4	1
1:D:184:ILE:HD12	1:D:184:ILE:C	0.49	2.26	6	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:E:102:VAL:HG23	1:E:188:SER:OG	0.49	2.06	6	1
1:B:98:ASP:CG	1:B:150:ALA:HB3	0.49	2.28	8	1
1:E:175:PHE:CD2	1:E:175:PHE:O	0.49	2.66	8	1
1:E:40:VAL:CG2	1:E:42:THR:HG22	0.49	2.38	10	1
1:B:50:ILE:HD13	1:B:62:THR:C	0.49	2.28	11	1
1:D:91:SER:HB3	1:D:104:ILE:O	0.49	2.07	13	1
1:E:165:ARG:HD2	1:E:182:VAL:HG12	0.49	1.84	13	1
1:A:27:LEU:C	1:A:27:LEU:HD23	0.49	2.28	14	1
1:A:63:ILE:CG1	1:A:117:LEU:HD13	0.49	2.37	15	1
1:D:141:LEU:HD23	1:D:142:LYS:N	0.49	2.21	15	1
1:A:50:ILE:HG21	1:A:62:THR:O	0.49	2.07	1	1
1:C:46:GLY:O	1:C:47:HIS:CG	0.49	2.65	2	4
1:C:62:THR:O	1:C:62:THR:HG23	0.49	2.07	2	1
1:C:63:ILE:HD12	1:C:117:LEU:HG	0.49	1.82	2	1
1:A:41:PHE:CG	1:A:71:ARG:CB	0.49	2.95	3	5
1:E:62:THR:HA	1:E:117:LEU:HD12	0.49	1.84	3	2
1:F:153:LEU:CD2	1:F:160:VAL:HG21	0.49	2.37	11	2
1:E:128:TYR:N	1:E:128:TYR:CD1	0.49	2.81	5	1
1:C:41:PHE:CD1	1:C:71:ARG:N	0.49	2.81	6	1
1:C:62:THR:HG21	1:C:115:GLN:NE2	0.49	2.22	7	1
1:C:50:ILE:HG13	1:C:117:LEU:CD2	0.49	2.34	12	2
1:D:68:LEU:HD12	1:D:68:LEU:O	0.49	2.06	9	1
1:D:90:ILE:O	1:D:90:ILE:HD12	0.49	2.07	11	1
1:C:47:HIS:O	1:C:65:ALA:O	0.49	2.30	12	1
1:D:108:VAL:HG21	1:D:137:VAL:HG11	0.49	1.84	15	1
1:F:42:THR:CB	1:F:68:LEU:HD13	0.49	2.37	15	1
1:B:141:LEU:HD23	1:B:141:LEU:C	0.49	2.27	2	3
1:D:24:LYS:O	1:E:27:LEU:HD21	0.49	2.08	2	1
1:F:48:ARG:O	1:F:80:ILE:HG23	0.49	2.08	11	3
1:C:58:VAL:HG22	1:C:59:GLN:H	0.49	1.68	3	2
1:F:48:ARG:HA	1:F:64:LEU:O	0.49	2.08	8	5
1:F:72:ILE:CB	1:F:73:PRO:CD	0.49	2.91	8	2
1:C:104:ILE:HG21	1:C:145:VAL:HG21	0.49	1.85	11	2
1:D:178:ILE:HD12	1:D:180:ASP:OD2	0.49	2.07	6	1
1:A:75:PHE:N	1:A:75:PHE:CD2	0.49	2.80	7	1
1:A:43:VAL:HG12	1:A:64:LEU:CD1	0.49	2.37	9	1
1:F:126:LEU:N	1:F:126:LEU:HD12	0.49	2.22	9	1
1:E:65:ALA:HB2	1:E:115:GLN:CG	0.49	2.37	10	1
1:C:94:THR:HB	1:C:145:VAL:HG21	0.49	1.83	13	1
1:C:97:LYS:HE2	1:C:102:VAL:HG21	0.49	1.83	15	1
1:D:72:ILE:HB	1:D:73:PRO:HD3	0.49	1.85	5	3

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:153:LEU:HD12	1:A:153:LEU:C	0.49	2.27	3	1
1:B:64:LEU:HB3	1:B:80:ILE:CG2	0.49	2.38	13	10
1:C:106:LEU:CA	1:C:184:ILE:HG22	0.49	2.37	4	1
1:D:106:LEU:H	1:D:141:LEU:HD11	0.49	1.66	4	1
1:F:41:PHE:O	1:F:70:PHE:CG	0.49	2.65	4	1
1:B:64:LEU:H	1:B:80:ILE:HD13	0.49	1.66	7	1
1:D:97:LYS:N	1:D:97:LYS:CD	0.49	2.76	8	1
1:D:106:LEU:HD21	1:D:108:VAL:HG23	0.49	1.84	8	1
1:D:25:LEU:HD23	1:E:27:LEU:HD21	0.49	1.85	14	2
1:D:88:ARG:HG2	1:D:133:LEU:HD22	0.49	1.83	1	1
1:C:62:THR:C	1:C:81:TYR:H	0.49	2.09	2	2
1:C:121:TYR:CD2	1:C:122:GLN:N	0.49	2.81	2	2
1:E:104:ILE:N	1:E:104:ILE:CD1	0.49	2.75	2	2
1:B:50:ILE:CD1	1:B:80:ILE:CG2	0.49	2.90	6	2
1:C:184:ILE:HD12	1:C:184:ILE:O	0.49	2.07	7	2
1:B:49:ALA:CA	1:B:64:LEU:HD12	0.49	2.38	7	6
1:E:34:TYR:CD2	1:F:34:TYR:CE2	0.49	3.00	8	1
1:F:72:ILE:HB	1:F:73:PRO:HD3	0.49	1.85	14	3
1:B:108:VAL:HG11	1:B:136:ILE:HD12	0.49	1.80	9	1
1:C:47:HIS:CG	1:C:63:ILE:HG12	0.49	2.42	11	1
1:E:120:MET:O	1:E:123:ARG:N	0.49	2.46	11	1
1:A:74:TRP:CD1	1:A:75:PHE:CE2	0.49	3.01	14	1
1:F:47:HIS:HB2	1:F:65:ALA:CB	0.49	2.37	14	1
1:D:114:ALA:HB2	1:D:178:ILE:HG21	0.49	1.84	15	1
1:F:104:ILE:HD12	1:F:141:LEU:CD2	0.49	2.37	15	1
1:C:43:VAL:HB	1:C:65:ALA:CA	0.48	2.37	2	1
1:C:62:THR:HA	1:C:117:LEU:CB	0.48	2.37	2	1
1:A:177:LEU:O	1:A:178:ILE:HG23	0.48	2.08	13	3
1:C:141:LEU:HD12	1:C:141:LEU:C	0.48	2.28	3	1
1:E:52:PHE:CE1	1:E:53:ASN:O	0.48	2.66	3	4
1:F:116:GLU:C	1:F:118:PRO:HD2	0.48	2.28	3	2
1:C:128:TYR:CD2	1:C:129:GLU:N	0.48	2.81	5	1
1:F:48:ARG:CB	1:F:63:ILE:HG12	0.48	2.38	7	1
1:F:79:ILE:O	1:F:79:ILE:HD12	0.48	2.08	9	1
1:A:136:ILE:O	1:A:140:VAL:HG12	0.48	2.08	10	1
1:C:153:LEU:HD21	1:C:186:GLU:OE1	0.48	2.08	10	1
1:B:106:LEU:CA	1:B:184:ILE:HG21	0.48	2.38	11	1
1:F:48:ARG:HD3	1:F:63:ILE:HB	0.48	1.83	11	1
1:F:36:VAL:O	1:F:39:SER:O	0.48	2.31	11	9
1:B:41:PHE:HB3	1:B:71:ARG:CB	0.48	2.39	4	4
1:B:120:MET:O	1:B:124:LEU:CB	0.48	2.60	13	5

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:83:ILE:HG22	1:A:112:PRO:O	0.48	2.08	3	1
1:F:52:PHE:CE2	1:F:53:ASN:O	0.48	2.66	5	4
1:B:64:LEU:O	1:B:64:LEU:HD23	0.48	2.08	9	4
1:D:137:VAL:HG12	1:D:141:LEU:CD1	0.48	2.38	7	1
1:B:52:PHE:CE1	1:B:58:VAL:HG22	0.48	2.43	8	1
1:B:72:ILE:CB	1:B:73:PRO:CD	0.48	2.91	12	4
1:F:46:GLY:O	1:F:47:HIS:CD2	0.48	2.66	14	3
1:D:90:ILE:O	1:D:90:ILE:CG1	0.48	2.61	11	1
1:C:48:ARG:HB3	1:C:63:ILE:HA	0.48	1.83	12	1
1:E:49:ALA:HB2	1:E:70:PHE:CE1	0.48	2.43	12	1
1:D:25:LEU:HD22	1:E:27:LEU:CD1	0.48	2.38	13	1
1:B:52:PHE:CZ	1:B:58:VAL:HG21	0.48	2.43	14	1
1:B:72:ILE:HG22	1:B:76:GLN:HB3	0.48	1.84	15	1
1:E:52:PHE:CE2	1:E:77:TYR:CB	0.48	2.97	15	1
1:E:109:LEU:CB	1:E:179:LEU:HD13	0.48	2.39	15	1
1:E:162:LEU:HD13	1:E:165:ARG:HE	0.48	1.68	15	1
1:A:27:LEU:HD21	1:F:25:LEU:HD23	0.48	1.84	1	1
1:B:116:GLU:C	1:B:118:PRO:HD2	0.48	2.29	3	4
1:C:133:LEU:HB3	1:C:134:PRO:HD3	0.48	1.85	1	2
1:F:48:ARG:HB2	1:F:64:LEU:N	0.48	2.22	3	2
1:C:2:ALA:HB1	1:C:5:LEU:HD23	0.48	1.84	3	1
1:D:46:GLY:O	1:D:47:HIS:CG	0.48	2.66	6	6
1:F:136:ILE:HG23	1:F:171:ARG:HD3	0.48	1.85	4	1
1:E:50:ILE:HG13	1:E:80:ILE:HA	0.48	1.85	12	3
1:E:41:PHE:CD2	1:E:42:THR:N	0.48	2.81	6	1
1:F:48:ARG:CA	1:F:64:LEU:O	0.48	2.61	7	4
1:C:97:LYS:HG2	1:C:145:VAL:HG12	0.48	1.85	8	1
1:A:44:GLU:N	1:A:65:ALA:HA	0.48	2.23	9	1
1:D:106:LEU:CB	1:D:184:ILE:HG22	0.48	2.38	10	2
1:F:48:ARG:CG	1:F:64:LEU:C	0.48	2.82	11	1
1:A:41:PHE:CB	1:A:71:ARG:HB3	0.48	2.37	12	1
1:E:41:PHE:O	1:E:70:PHE:CG	0.48	2.66	12	1
1:E:80:ILE:HD13	1:E:80:ILE:H	0.48	1.68	12	1
1:A:62:THR:HG21	1:A:121:TYR:CB	0.48	2.38	13	1
1:A:34:TYR:CE1	1:F:34:TYR:CE1	0.48	3.01	14	1
1:B:49:ALA:CA	1:B:50:ILE:HD12	0.48	2.39	5	2
1:F:41:PHE:HB3	1:F:71:ARG:HB2	0.48	1.84	7	6
1:B:44:GLU:O	1:B:66:GLU:N	0.48	2.46	2	1
1:E:90:ILE:O	1:E:105:SER:CB	0.48	2.62	2	5
1:F:64:LEU:HD12	1:F:115:GLN:HA	0.48	1.84	2	1
1:B:129:GLU:HB2	1:B:133:LEU:HD13	0.48	1.85	3	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:E:133:LEU:CB	1:E:134:PRO:HD3	0.48	2.38	14	8
1:A:68:LEU:HD23	1:F:54:ARG:HB2	0.48	1.84	15	2
1:D:52:PHE:CZ	1:D:57:GLY:O	0.48	2.66	5	1
1:F:144:VAL:CG1	1:F:164:ILE:HD11	0.48	2.33	5	1
1:C:72:ILE:CB	1:C:73:PRO:CD	0.48	2.91	8	2
1:C:49:ALA:CA	1:C:64:LEU:HD12	0.48	2.38	11	2
1:A:109:LEU:O	1:A:179:LEU:HD13	0.48	2.07	12	1
1:D:172:ALA:HB1	1:D:178:ILE:HD11	0.48	1.85	13	1
1:C:48:ARG:HB2	1:C:63:ILE:HA	0.48	1.81	14	1
1:A:12:LEU:CB	1:A:13:PRO:CD	0.48	2.91	1	15
1:B:52:PHE:CZ	1:B:53:ASN:O	0.48	2.67	7	3
1:C:129:GLU:O	1:C:133:LEU:CB	0.48	2.62	2	2
1:E:63:ILE:H	1:E:117:LEU:HB3	0.48	1.68	8	3
1:F:130:GLU:O	1:F:134:PRO:CD	0.48	2.62	13	7
1:A:109:LEU:HD23	1:A:109:LEU:C	0.48	2.29	3	1
1:B:48:ARG:HB2	1:B:63:ILE:HG12	0.48	1.85	5	1
1:C:157:ARG:O	1:C:160:VAL:HG22	0.48	2.08	6	1
1:F:62:THR:HG22	1:F:121:TYR:HB2	0.48	1.84	6	1
1:F:52:PHE:O	1:F:77:TYR:N	0.48	2.47	14	3
1:F:148:PHE:CZ	1:F:160:VAL:HG22	0.48	2.43	7	1
1:A:34:TYR:CE2	1:B:34:TYR:CE1	0.48	3.02	8	3
1:A:133:LEU:O	1:A:137:VAL:CG2	0.48	2.62	15	3
1:A:165:ARG:N	1:A:182:VAL:HG21	0.48	2.23	10	2
1:A:116:GLU:C	1:A:118:PRO:HD2	0.48	2.28	9	3
1:B:104:ILE:HG21	1:B:145:VAL:HB	0.48	1.84	10	1
1:D:128:TYR:N	1:D:128:TYR:CD1	0.48	2.82	11	1
1:E:62:THR:HG23	1:E:121:TYR:CG	0.48	2.43	11	1
1:E:118:PRO:HA	1:E:121:TYR:HB3	0.48	1.86	11	1
1:B:106:LEU:H	1:B:141:LEU:HD13	0.48	1.67	13	1
1:E:34:TYR:CE1	1:F:34:TYR:CE2	0.48	3.01	15	1
1:A:52:PHE:CE1	1:A:77:TYR:CB	0.48	2.96	4	3
1:A:104:ILE:HG22	1:A:141:LEU:HD11	0.48	1.84	1	1
1:B:141:LEU:HD12	1:B:141:LEU:C	0.48	2.28	1	1
1:D:36:VAL:O	1:D:39:SER:O	0.48	2.32	1	7
1:B:107:ARG:NH2	1:B:109:LEU:HD11	0.48	2.23	2	1
1:E:105:SER:HB3	1:E:186:GLU:HB2	0.48	1.86	2	1
1:F:48:ARG:HG2	1:F:63:ILE:CG1	0.48	2.38	3	1
1:B:50:ILE:O	1:B:70:PHE:CZ	0.48	2.66	4	2
1:F:62:THR:HG21	1:F:121:TYR:CB	0.48	2.39	9	2
1:A:43:VAL:CG1	1:A:64:LEU:HG	0.48	2.38	9	1
1:C:41:PHE:CD1	1:C:78:PRO:CB	0.48	2.97	10	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:D:90:ILE:CD1	1:D:186:GLU:HB2	0.48	2.35	11	1
1:A:41:PHE:CG	1:A:71:ARG:HB3	0.48	2.44	6	6
1:D:130:GLU:O	1:D:134:PRO:CD	0.48	2.61	7	12
1:E:12:LEU:CB	1:E:13:PRO:CD	0.48	2.92	5	15
1:F:117:LEU:O	1:F:121:TYR:CB	0.48	2.61	2	3
1:B:60:GLN:N	1:B:79:ILE:HG21	0.48	2.24	3	1
1:B:25:LEU:HD11	1:C:23:LEU:CD2	0.48	2.39	4	1
1:B:129:GLU:HG3	1:B:133:LEU:HD13	0.48	1.85	5	1
1:D:108:VAL:HG13	1:D:133:LEU:HD23	0.48	1.86	5	1
1:B:25:LEU:HD21	1:C:23:LEU:HD23	0.48	1.84	6	1
1:C:48:ARG:O	1:C:80:ILE:CD1	0.48	2.62	7	1
1:C:41:PHE:CD2	1:C:71:ARG:CB	0.48	2.97	9	1
1:F:116:GLU:HG2	1:F:177:LEU:HD12	0.48	1.86	9	1
1:A:63:ILE:H	1:A:117:LEU:HG	0.48	1.68	8	3
1:B:12:LEU:CB	1:B:13:PRO:CD	0.48	2.92	8	14
1:E:64:LEU:HD21	1:E:118:PRO:HG3	0.48	1.85	1	1
1:F:50:ILE:HG12	1:F:117:LEU:CD1	0.48	2.39	11	2
1:A:184:ILE:HD13	1:A:184:ILE:N	0.48	2.24	3	1
1:B:59:GLN:CA	1:B:79:ILE:HG21	0.48	2.38	3	1
1:B:102:VAL:HB	1:B:150:ALA:HB2	0.48	1.85	3	1
1:C:40:VAL:HG12	1:C:41:PHE:N	0.48	2.24	3	2
1:E:133:LEU:O	1:E:137:VAL:HG23	0.48	2.09	4	5
1:F:184:ILE:HD12	1:F:184:ILE:C	0.48	2.29	4	1
1:E:48:ARG:O	1:E:63:ILE:HG22	0.48	2.08	5	2
1:C:175:PHE:CD1	1:C:175:PHE:O	0.48	2.66	6	1
1:F:41:PHE:CB	1:F:71:ARG:CB	0.48	2.91	14	2
1:F:1:MET:O	1:F:2:ALA:HB3	0.48	2.08	11	1
1:C:48:ARG:CD	1:C:117:LEU:HD23	0.48	2.39	12	1
1:D:168:LEU:CG	1:D:182:VAL:HG21	0.48	2.38	12	1
1:F:90:ILE:HD13	1:F:141:LEU:HD22	0.48	1.85	12	1
1:B:47:HIS:CG	1:B:63:ILE:HG12	0.48	2.44	14	1
1:F:47:HIS:CD2	1:F:63:ILE:CD1	0.48	2.96	14	1
1:D:137:VAL:O	1:D:141:LEU:HD12	0.48	2.09	1	1
1:B:47:HIS:CD2	1:B:63:ILE:CG2	0.48	2.97	2	1
1:F:175:PHE:O	1:F:175:PHE:CG	0.48	2.66	3	1
1:B:53:ASN:O	1:B:55:ILE:HG22	0.48	2.09	6	2
1:B:71:ARG:O	1:B:71:ARG:CG	0.48	2.61	5	1
1:D:150:ALA:O	1:D:154:ILE:HG22	0.48	2.09	5	1
1:F:59:GLN:O	1:F:79:ILE:HD13	0.48	2.09	10	2
1:A:62:THR:CG2	1:A:121:TYR:CD2	0.48	2.97	10	1
1:C:27:LEU:C	1:C:27:LEU:HD23	0.48	2.29	10	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:C:52:PHE:O	1:C:77:TYR:N	0.48	2.47	11	2
1:C:141:LEU:C	1:C:141:LEU:HD23	0.48	2.29	15	2
1:C:161:SER:HA	1:C:164:ILE:HD12	0.48	1.85	11	1
1:E:140:VAL:HG21	1:E:168:LEU:HD23	0.48	1.86	15	1
1:A:130:GLU:O	1:A:134:PRO:CD	0.48	2.62	2	9
1:D:41:PHE:O	1:D:70:PHE:CG	0.48	2.67	1	1
1:E:25:LEU:HD22	1:F:27:LEU:HD11	0.48	1.86	1	1
1:A:41:PHE:O	1:A:70:PHE:CG	0.48	2.67	2	1
1:A:72:ILE:HB	1:A:73:PRO:HD3	0.48	1.85	2	1
1:B:117:LEU:N	1:B:117:LEU:CD2	0.48	2.77	8	6
1:E:48:ARG:O	1:E:80:ILE:HG23	0.48	2.09	6	4
1:B:177:LEU:O	1:B:178:ILE:HG23	0.48	2.09	3	3
1:E:72:ILE:CB	1:E:73:PRO:CD	0.48	2.92	6	2
1:C:58:VAL:HG12	1:C:59:GLN:N	0.48	2.24	6	1
1:A:62:THR:HG22	1:A:117:LEU:CD1	0.48	2.39	8	1
1:C:106:LEU:HD11	1:C:137:VAL:HG13	0.48	1.86	11	1
1:E:68:LEU:HD23	1:E:68:LEU:C	0.48	2.30	11	1
1:D:105:SER:O	1:D:184:ILE:HD13	0.48	2.09	12	1
1:A:23:LEU:HD12	1:A:23:LEU:C	0.48	2.29	15	2
1:A:41:PHE:CD1	1:A:71:ARG:N	0.48	2.82	14	1
1:E:106:LEU:C	1:E:106:LEU:HD23	0.48	2.29	14	1
1:F:77:TYR:CD1	1:F:79:ILE:HD12	0.48	2.44	14	1
1:E:102:VAL:HG22	1:E:150:ALA:CA	0.47	2.39	1	1
1:D:1:MET:O	1:D:2:ALA:HB3	0.47	2.09	2	1
1:E:137:VAL:O	1:E:141:LEU:CB	0.47	2.62	2	1
1:F:106:LEU:O	1:F:106:LEU:CD2	0.47	2.61	3	1
1:F:50:ILE:HD11	1:F:62:THR:O	0.47	2.09	13	3
1:B:102:VAL:CG1	1:B:104:ILE:HD11	0.47	2.39	6	1
1:B:70:PHE:CD2	1:B:78:PRO:CB	0.47	2.97	8	1
1:F:64:LEU:O	1:F:65:ALA:O	0.47	2.32	8	2
1:A:48:ARG:O	1:A:64:LEU:HA	0.47	2.09	9	1
1:A:70:PHE:O	1:A:71:ARG:C	0.47	2.52	9	1
1:B:25:LEU:HD21	1:C:26:LEU:HD23	0.47	1.84	12	1
1:B:148:PHE:HE2	1:B:163:LEU:HD13	0.47	1.68	12	1
1:D:140:VAL:O	1:D:144:VAL:HG22	0.47	2.08	12	1
1:F:121:TYR:CZ	1:F:122:GLN:HB2	0.47	2.44	15	1
1:E:53:ASN:O	1:E:55:ILE:N	0.47	2.47	1	1
1:A:94:THR:HB	1:A:104:ILE:HG22	0.47	1.85	3	1
1:A:168:LEU:HD21	1:A:182:VAL:HB	0.47	1.84	3	1
1:C:48:ARG:HG2	1:C:64:LEU:C	0.47	2.30	7	2
1:A:71:ARG:O	1:A:72:ILE:C	0.47	2.51	4	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:75:PHE:CG	1:A:75:PHE:O	0.47	2.67	7	1
1:C:52:PHE:CZ	1:C:79:ILE:HB	0.47	2.44	7	1
1:B:47:HIS:CD2	1:B:63:ILE:HG12	0.47	2.44	8	2
1:A:64:LEU:HD13	1:A:80:ILE:HG21	0.47	1.86	9	1
1:A:168:LEU:HD23	1:A:168:LEU:O	0.47	2.09	9	1
1:B:59:GLN:CG	1:B:121:TYR:CZ	0.47	2.96	9	1
1:E:94:THR:HG23	1:E:94:THR:O	0.47	2.09	10	1
1:E:128:TYR:CD2	1:E:129:GLU:N	0.47	2.82	11	2
1:A:136:ILE:O	1:A:140:VAL:HG22	0.47	2.08	12	1
1:E:62:THR:O	1:E:63:ILE:CG2	0.47	2.58	13	2
1:B:41:PHE:O	1:B:70:PHE:CG	0.47	2.67	1	1
1:C:50:ILE:CG2	1:C:62:THR:O	0.47	2.62	1	1
1:A:133:LEU:HB3	1:A:134:PRO:HD3	0.47	1.85	7	3
1:C:52:PHE:CD2	1:C:59:GLN:HB3	0.47	2.45	2	1
1:D:117:LEU:O	1:D:121:TYR:HB2	0.47	2.09	10	4
1:A:90:ILE:CG2	1:A:184:ILE:CG2	0.47	2.92	3	1
1:B:120:MET:CE	1:B:175:PHE:CE2	0.47	2.98	3	1
1:D:104:ILE:HD13	1:D:104:ILE:C	0.47	2.30	3	2
1:E:156:GLN:O	1:E:158:ALA:N	0.47	2.47	3	1
1:B:121:TYR:CD2	1:B:121:TYR:C	0.47	2.88	7	3
1:D:106:LEU:CD2	1:D:168:LEU:HD13	0.47	2.38	4	1
1:B:117:LEU:O	1:B:121:TYR:HB2	0.47	2.08	11	2
1:B:71:ARG:O	1:B:72:ILE:O	0.47	2.32	7	2
1:C:48:ARG:HD3	1:C:63:ILE:HB	0.47	1.85	7	1
1:F:98:ASP:OD2	1:F:150:ALA:HB2	0.47	2.08	7	1
1:A:62:THR:O	1:A:63:ILE:CB	0.47	2.63	9	1
1:C:48:ARG:HG2	1:C:63:ILE:HB	0.47	1.86	9	1
1:C:48:ARG:HG2	1:C:63:ILE:CG1	0.47	2.39	9	1
1:A:132:VAL:HG21	1:A:175:PHE:CE2	0.47	2.44	13	1
1:C:106:LEU:HD21	1:C:182:VAL:CG2	0.47	2.40	14	1
1:F:61:ASP:C	1:F:81:TYR:HB2	0.47	2.30	14	1
1:F:62:THR:O	1:F:80:ILE:HA	0.47	2.09	14	1
1:F:168:LEU:O	1:F:172:ALA:HB2	0.47	2.09	14	1
1:C:68:LEU:HD23	1:C:68:LEU:C	0.47	2.29	3	2
1:E:117:LEU:O	1:E:121:TYR:HB2	0.47	2.09	10	8
1:F:104:ILE:HG22	1:F:141:LEU:HD22	0.47	1.84	1	1
1:F:124:LEU:HD21	1:F:128:TYR:HA	0.47	1.85	1	1
1:B:64:LEU:O	1:B:65:ALA:CB	0.47	2.62	6	5
1:B:128:TYR:CD2	1:B:129:GLU:N	0.47	2.82	2	1
1:D:133:LEU:CB	1:D:134:PRO:HD3	0.47	2.39	11	10
1:A:90:ILE:CG2	1:A:184:ILE:HB	0.47	2.40	3	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:40:VAL:HG22	1:B:41:PHE:N	0.47	2.24	3	4
1:F:50:ILE:HG23	1:F:117:LEU:CD1	0.47	2.35	3	1
1:D:43:VAL:CG2	1:D:66:GLU:N	0.47	2.64	9	2
1:B:90:ILE:O	1:B:105:SER:CB	0.47	2.62	6	1
1:B:47:HIS:CD2	1:B:63:ILE:CD1	0.47	2.97	14	2
1:C:168:LEU:HD22	1:C:182:VAL:HG22	0.47	1.85	8	1
1:F:165:ARG:CB	1:F:182:VAL:HG21	0.47	2.39	9	1
1:E:165:ARG:CG	1:E:182:VAL:HG22	0.47	2.36	10	1
1:C:64:LEU:CB	1:C:80:ILE:HB	0.47	2.40	11	1
1:F:141:LEU:HD23	1:F:141:LEU:C	0.47	2.30	11	1
1:E:25:LEU:HD11	1:F:23:LEU:HD22	0.47	1.84	12	1
1:E:104:ILE:HG21	1:E:145:VAL:CG1	0.47	2.40	12	1
1:F:65:ALA:O	1:F:66:GLU:HB3	0.47	2.10	15	1
1:C:106:LEU:HD21	1:C:168:LEU:HD21	0.47	1.85	3	1
1:E:70:PHE:CZ	1:E:80:ILE:HD11	0.47	2.44	4	2
1:C:63:ILE:HG23	1:C:81:TYR:HB3	0.47	1.86	5	1
1:E:41:PHE:HB3	1:E:71:ARG:CB	0.47	2.39	6	1
1:E:108:VAL:C	1:E:109:LEU:HD12	0.47	2.30	7	1
1:F:41:PHE:CD2	1:F:42:THR:N	0.47	2.83	14	2
1:C:117:LEU:HG	1:C:118:PRO:N	0.47	2.23	9	2
1:E:48:ARG:HB2	1:E:63:ILE:HA	0.47	1.84	10	1
1:F:63:ILE:HD11	1:F:83:ILE:CG2	0.47	2.37	11	1
1:A:104:ILE:HD12	1:A:141:LEU:HG	0.47	1.86	12	1
1:E:48:ARG:NE	1:E:64:LEU:O	0.47	2.48	12	1
1:D:94:THR:HB	1:D:145:VAL:HG11	0.47	1.87	13	1
1:D:48:ARG:O	1:D:80:ILE:HG23	0.47	2.10	14	1
1:B:153:LEU:HD21	1:B:186:GLU:OE1	0.47	2.08	15	1
1:F:106:LEU:HD11	1:F:137:VAL:CG1	0.47	2.39	15	1
1:C:64:LEU:O	1:C:65:ALA:CB	0.47	2.62	2	2
1:C:64:LEU:CB	1:C:80:ILE:CG2	0.47	2.92	10	3
1:B:40:VAL:CG2	1:B:42:THR:HG22	0.47	2.39	3	1
1:B:63:ILE:CA	1:B:81:TYR:O	0.47	2.62	12	7
1:C:52:PHE:CE2	1:C:77:TYR:CB	0.47	2.98	3	1
1:E:62:THR:C	1:E:63:ILE:CG2	0.47	2.83	3	1
1:F:89:LYS:C	1:F:90:ILE:HD12	0.47	2.29	4	1
1:D:104:ILE:HD12	1:D:145:VAL:CA	0.47	2.39	5	1
1:B:70:PHE:CE2	1:B:78:PRO:HB3	0.47	2.44	8	1
1:F:41:PHE:O	1:F:70:PHE:CD2	0.47	2.68	8	1
1:E:72:ILE:N	1:E:73:PRO:HD2	0.47	2.23	10	3
1:F:157:ARG:O	1:F:160:VAL:HG12	0.47	2.08	9	1
1:E:40:VAL:HG22	1:E:42:THR:HG22	0.47	1.86	10	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:43:VAL:HB	1:B:67:GLY:N	0.47	2.25	15	2
1:C:72:ILE:CG2	1:C:76:GLN:CB	0.47	2.93	13	1
1:B:109:LEU:HD23	1:B:180:ASP:CG	0.47	2.30	15	1
1:B:112:PRO:CB	1:B:117:LEU:HD21	0.47	2.39	15	1
1:F:78:PRO:C	1:F:79:ILE:HD12	0.47	2.29	15	1
1:C:50:ILE:HG21	1:C:62:THR:O	0.47	2.09	1	1
1:F:153:LEU:HD12	1:F:160:VAL:HG21	0.47	1.84	1	1
1:B:50:ILE:HB	1:B:52:PHE:CE2	0.47	2.44	2	1
1:B:69:HIS:O	1:B:70:PHE:CD2	0.47	2.68	12	3
1:A:133:LEU:O	1:A:137:VAL:HG22	0.47	2.10	3	1
1:A:154:ILE:CD1	1:A:189:PHE:CE2	0.47	2.98	3	1
1:B:43:VAL:HG23	1:B:67:GLY:O	0.47	2.09	3	6
1:B:47:HIS:CD2	1:B:63:ILE:CG1	0.47	2.97	3	2
1:B:106:LEU:CD1	1:B:164:ILE:HG21	0.47	2.40	3	1
1:C:133:LEU:CB	1:C:134:PRO:HD3	0.47	2.39	15	8
1:C:168:LEU:HG	1:C:182:VAL:HG11	0.47	1.85	3	1
1:D:71:ARG:O	1:D:72:ILE:O	0.47	2.32	8	2
1:A:27:LEU:HD21	1:F:25:LEU:HD13	0.47	1.84	4	2
1:E:117:LEU:HD12	1:E:117:LEU:C	0.47	2.30	4	1
1:E:121:TYR:CD2	1:E:121:TYR:C	0.47	2.88	4	1
1:D:94:THR:CB	1:D:145:VAL:HG21	0.47	2.37	5	1
1:F:83:ILE:HD12	1:F:112:PRO:HD2	0.47	1.87	6	1
1:A:132:VAL:HG11	1:A:175:PHE:CD1	0.47	2.45	7	1
1:B:27:LEU:HD23	1:B:27:LEU:C	0.47	2.30	8	1
1:B:106:LEU:HD23	1:B:137:VAL:HG13	0.47	1.87	8	1
1:A:65:ALA:O	1:A:66:GLU:CB	0.47	2.62	9	1
1:B:40:VAL:HG12	1:B:41:PHE:N	0.47	2.24	9	2
1:C:54:ARG:CD	1:C:55:ILE:HD12	0.47	2.40	9	1
1:E:54:ARG:HD2	1:F:68:LEU:HD13	0.47	1.86	9	1
1:F:27:LEU:C	1:F:27:LEU:HD23	0.47	2.30	9	1
1:C:104:ILE:HB	1:C:145:VAL:HG22	0.47	1.85	10	1
1:B:140:VAL:O	1:B:144:VAL:HG12	0.47	2.09	11	1
1:D:54:ARG:CB	1:E:68:LEU:HD12	0.47	2.40	11	2
1:A:71:ARG:O	1:A:72:ILE:HB	0.47	2.10	12	1
1:C:104:ILE:CD1	1:C:141:LEU:HD21	0.47	2.40	12	1
1:E:129:GLU:O	1:E:133:LEU:CB	0.47	2.63	12	1
1:D:91:SER:HB3	1:D:104:ILE:HB	0.47	1.87	13	1
1:E:83:ILE:HG23	1:E:83:ILE:O	0.47	2.09	13	1
1:F:50:ILE:CG1	1:F:62:THR:HG22	0.47	2.40	13	1
1:F:43:VAL:HG12	1:F:66:GLU:N	0.47	2.24	14	1
1:F:47:HIS:HB3	1:F:64:LEU:N	0.47	2.24	14	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:52:PHE:O	1:A:76:GLN:HA	0.47	2.09	15	1
1:B:106:LEU:HD21	1:B:140:VAL:HG23	0.47	1.85	15	1
1:A:121:TYR:CD2	1:A:122:GLN:N	0.47	2.82	3	2
1:E:130:GLU:O	1:E:134:PRO:CD	0.47	2.63	9	10
1:D:132:VAL:CG1	1:D:136:ILE:HD12	0.47	2.40	3	1
1:E:63:ILE:CG2	1:E:81:TYR:HB3	0.47	2.40	3	1
1:F:50:ILE:CG2	1:F:117:LEU:CD2	0.47	2.91	3	1
1:A:189:PHE:N	1:A:189:PHE:CD1	0.47	2.83	4	1
1:B:63:ILE:HA	1:B:81:TYR:N	0.47	2.25	10	5
1:D:58:VAL:HG12	1:E:66:GLU:CD	0.47	2.31	4	1
1:D:107:ARG:N	1:D:184:ILE:HG21	0.47	2.25	6	1
1:E:132:VAL:HG22	1:E:136:ILE:CD1	0.47	2.39	7	1
1:B:41:PHE:CD2	1:B:71:ARG:O	0.47	2.67	10	1
1:B:136:ILE:N	1:B:136:ILE:HD12	0.47	2.25	10	1
1:C:42:THR:C	1:C:43:VAL:HG23	0.47	2.30	10	1
1:C:48:ARG:HB3	1:C:63:ILE:CB	0.47	2.39	12	1
1:F:133:LEU:O	1:F:137:VAL:HG12	0.47	2.10	12	1
1:C:129:GLU:OE1	1:C:133:LEU:HD11	0.47	2.10	13	1
1:F:60:GLN:O	1:F:121:TYR:CD1	0.47	2.68	13	1
1:F:62:THR:CG2	1:F:117:LEU:HB3	0.47	2.36	13	1
1:B:41:PHE:CD1	1:B:71:ARG:O	0.47	2.67	14	1
1:B:173:LYS:HG3	1:B:177:LEU:HD12	0.47	1.87	14	1
1:E:104:ILE:HD13	1:E:145:VAL:HG21	0.47	1.86	14	1
1:F:80:ILE:HD13	1:F:80:ILE:C	0.47	2.31	14	2
1:A:71:ARG:C	1:A:72:ILE:HG12	0.47	2.29	15	1
1:A:50:ILE:HG12	1:A:80:ILE:HG22	0.47	1.86	3	2
1:D:27:LEU:HD23	1:D:27:LEU:O	0.47	2.10	8	3
1:D:124:LEU:HD12	1:D:128:TYR:CD1	0.47	2.44	3	1
1:B:94:THR:HG23	1:B:145:VAL:CG1	0.47	2.29	4	1
1:C:43:VAL:O	1:C:43:VAL:HG13	0.47	2.08	5	1
1:E:52:PHE:CZ	1:E:57:GLY:O	0.47	2.68	5	1
1:C:48:ARG:CA	1:C:64:LEU:O	0.47	2.63	6	2
1:D:121:TYR:CD2	1:D:122:GLN:N	0.47	2.83	7	2
1:E:48:ARG:CD	1:E:48:ARG:N	0.47	2.78	13	2
1:F:133:LEU:HB3	1:F:134:PRO:HD3	0.47	1.87	11	2
1:A:50:ILE:CD1	1:A:50:ILE:H	0.47	2.21	9	1
1:B:58:VAL:HG21	1:C:45:GLY:HA3	0.47	1.83	10	1
1:A:50:ILE:HG13	1:A:117:LEU:HD21	0.47	1.87	11	1
1:E:121:TYR:HA	1:E:124:LEU:HD12	0.47	1.87	11	1
1:A:138:ASN:HA	1:A:141:LEU:HD21	0.47	1.87	14	1
1:B:68:LEU:HD12	1:B:68:LEU:O	0.47	2.09	14	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:F:63:ILE:H	1:F:81:TYR:H	0.47	1.53	15	1
1:D:40:VAL:HG22	1:D:41:PHE:N	0.47	2.25	2	10
1:D:44:GLU:C	1:D:66:GLU:N	0.47	2.68	5	1
1:F:73:PRO:O	1:F:74:TRP:CB	0.47	2.61	7	1
1:F:148:PHE:CE2	1:F:160:VAL:HG22	0.47	2.45	7	1
1:B:62:THR:HA	1:B:117:LEU:CG	0.47	2.39	8	1
1:A:62:THR:O	1:A:81:TYR:HB3	0.47	2.10	9	1
1:A:63:ILE:O	1:A:64:LEU:HB2	0.47	2.10	9	1
1:A:168:LEU:HD23	1:A:168:LEU:C	0.47	2.31	9	1
1:A:132:VAL:CG1	1:A:175:PHE:CE1	0.47	2.98	10	2
1:C:45:GLY:H	1:C:65:ALA:HB1	0.47	1.70	10	1
1:D:132:VAL:CG1	1:D:136:ILE:HD11	0.47	2.40	10	1
1:A:84:ARG:O	1:A:85:ALA:HB3	0.47	2.10	15	2
1:C:61:ASP:O	1:C:117:LEU:HD22	0.47	2.09	11	1
1:F:81:TYR:C	1:F:81:TYR:CD2	0.47	2.88	13	1
1:F:48:ARG:O	1:F:64:LEU:CA	0.47	2.63	14	2
1:F:154:ILE:HG23	1:F:189:PHE:CE1	0.47	2.45	14	1
1:D:49:ALA:HB2	1:D:70:PHE:CE2	0.46	2.45	1	1
1:B:130:GLU:O	1:B:134:PRO:CG	0.46	2.63	5	4
1:D:128:TYR:N	1:D:128:TYR:CD2	0.46	2.83	5	2
1:D:106:LEU:HB2	1:D:141:LEU:HD12	0.46	1.85	3	1
1:E:53:ASN:N	1:E:53:ASN:OD1	0.46	2.48	3	1
1:E:179:LEU:HD13	1:E:179:LEU:C	0.46	2.30	3	1
1:F:58:VAL:CG1	1:F:79:ILE:HD13	0.46	2.40	3	1
1:B:153:LEU:HD22	1:B:160:VAL:HG21	0.46	1.86	4	1
1:C:124:LEU:HD23	1:C:176:SER:HB2	0.46	1.85	4	1
1:D:105:SER:C	1:D:141:LEU:HD21	0.46	2.30	4	1
1:F:48:ARG:HB3	1:F:64:LEU:O	0.46	2.10	4	4
1:B:62:THR:O	1:B:81:TYR:HB3	0.46	2.10	8	2
1:B:163:LEU:HD13	1:B:163:LEU:O	0.46	2.10	6	1
1:E:50:ILE:HD11	1:E:62:THR:O	0.46	2.09	6	2
1:A:129:GLU:O	1:A:133:LEU:CB	0.46	2.63	7	2
1:E:132:VAL:HG21	1:E:175:PHE:CD2	0.46	2.45	7	1
1:A:65:ALA:O	1:A:66:GLU:HB2	0.46	2.10	9	1
1:D:68:LEU:N	1:D:68:LEU:CD2	0.46	2.74	10	1
1:D:128:TYR:CD1	1:D:129:GLU:N	0.46	2.83	10	1
1:F:153:LEU:HD22	1:F:160:VAL:CG2	0.46	2.40	11	1
1:B:41:PHE:CE1	1:B:78:PRO:CB	0.46	2.99	13	1
1:B:106:LEU:HD21	1:B:168:LEU:HD12	0.46	1.86	14	1
1:F:52:PHE:CD2	1:F:59:GLN:CG	0.46	2.98	14	1
1:F:52:PHE:CE1	1:F:58:VAL:HG13	0.46	2.45	14	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:D:77:TYR:CD2	1:D:79:ILE:HD11	0.46	2.45	15	1
1:F:126:LEU:O	1:F:128:TYR:CD1	0.46	2.69	15	1
1:E:48:ARG:HA	1:E:64:LEU:O	0.46	2.10	1	7
1:E:50:ILE:CG2	1:E:62:THR:CG2	0.46	2.93	1	3
1:B:89:LYS:C	1:B:90:ILE:HD12	0.46	2.30	13	3
1:B:117:LEU:HD13	1:B:120:MET:SD	0.46	2.51	2	1
1:D:134:PRO:HA	1:D:137:VAL:CG2	0.46	2.41	2	2
1:E:189:PHE:N	1:E:189:PHE:CD2	0.46	2.84	2	1
1:A:134:PRO:O	1:A:138:ASN:CB	0.46	2.64	3	3
1:C:64:LEU:HD23	1:C:65:ALA:N	0.46	2.25	3	1
1:E:52:PHE:CD1	1:E:57:GLY:O	0.46	2.68	3	2
1:E:50:ILE:HD11	1:E:80:ILE:CG2	0.46	2.34	4	1
1:F:184:ILE:N	1:F:184:ILE:CD1	0.46	2.79	9	2
1:E:41:PHE:O	1:E:70:PHE:CD1	0.46	2.68	9	2
1:B:52:PHE:CE1	1:B:57:GLY:O	0.46	2.68	7	2
1:B:106:LEU:CD2	1:B:164:ILE:HD13	0.46	2.35	7	1
1:F:62:THR:HA	1:F:117:LEU:HD12	0.46	1.87	7	2
1:E:184:ILE:C	1:E:184:ILE:CD1	0.46	2.82	8	1
1:A:68:LEU:HD13	1:F:54:ARG:CB	0.46	2.39	10	1
1:E:41:PHE:CD2	1:E:71:ARG:HG3	0.46	2.45	13	2
1:A:50:ILE:CG1	1:A:117:LEU:CD1	0.46	2.92	11	1
1:E:175:PHE:O	1:E:175:PHE:CG	0.46	2.68	11	1
1:D:58:VAL:HG21	1:D:121:TYR:OH	0.46	2.09	12	1
1:D:140:VAL:HG11	1:D:164:ILE:HG23	0.46	1.87	13	1
1:F:104:ILE:N	1:F:104:ILE:CD1	0.46	2.78	14	1
1:C:41:PHE:HB3	1:C:71:ARG:CB	0.46	2.41	2	1
1:F:71:ARG:O	1:F:71:ARG:HG3	0.46	2.11	2	1
1:B:41:PHE:CD1	1:B:78:PRO:CG	0.46	2.98	3	1
1:E:49:ALA:O	1:E:64:LEU:CB	0.46	2.63	3	2
1:F:106:LEU:HD13	1:F:106:LEU:H	0.46	1.64	3	1
1:C:124:LEU:HD13	1:C:124:LEU:C	0.46	2.30	4	1
1:C:175:PHE:O	1:C:175:PHE:CG	0.46	2.68	5	2
1:D:53:ASN:O	1:D:55:ILE:N	0.46	2.48	5	2
1:C:50:ILE:CG2	1:C:117:LEU:HD23	0.46	2.40	7	1
1:C:62:THR:HG21	1:C:115:GLN:CD	0.46	2.30	7	1
1:A:52:PHE:CD1	1:A:53:ASN:N	0.46	2.84	8	2
1:D:41:PHE:CD1	1:D:70:PHE:O	0.46	2.68	9	1
1:E:132:VAL:O	1:E:136:ILE:HG22	0.46	2.11	10	2
1:C:43:VAL:HG13	1:C:64:LEU:CG	0.46	2.39	10	2
1:C:116:GLU:O	1:C:120:MET:CB	0.46	2.64	10	1
1:E:148:PHE:CD2	1:E:160:VAL:HG13	0.46	2.45	10	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:F:58:VAL:HG12	1:F:121:TYR:OH	0.46	2.10	10	1
1:F:64:LEU:HD12	1:F:116:GLU:HA	0.46	1.87	10	1
1:A:41:PHE:CD2	1:A:71:ARG:N	0.46	2.83	11	1
1:A:52:PHE:CD2	1:A:77:TYR:CB	0.46	2.98	12	2
1:B:102:VAL:HG21	1:B:150:ALA:CA	0.46	2.41	13	1
1:A:62:THR:HA	1:A:117:LEU:HB3	0.46	1.86	15	1
1:C:50:ILE:HG12	1:C:80:ILE:HG22	0.46	1.88	15	1
1:D:53:ASN:O	1:D:54:ARG:C	0.46	2.54	15	1
1:B:133:LEU:CB	1:B:134:PRO:HD3	0.46	2.41	8	9
1:C:75:PHE:N	1:C:75:PHE:CD2	0.46	2.84	9	2
1:A:108:VAL:HG23	1:A:137:VAL:HG22	0.46	1.87	2	2
1:C:64:LEU:CD1	1:C:70:PHE:CZ	0.46	2.98	2	1
1:B:80:ILE:HD13	1:B:80:ILE:C	0.46	2.31	8	2
1:C:177:LEU:O	1:C:178:ILE:CG2	0.46	2.64	3	1
1:D:94:THR:O	1:D:145:VAL:HG11	0.46	2.10	3	1
1:E:63:ILE:HG22	1:E:81:TYR:O	0.46	2.09	3	1
1:B:43:VAL:CG2	1:B:67:GLY:N	0.46	2.78	6	2
1:B:78:PRO:O	1:B:79:ILE:HG23	0.46	2.10	6	2
1:D:73:PRO:CG	1:D:76:GLN:CB	0.46	2.93	4	1
1:A:140:VAL:HG21	1:A:167:GLU:HG2	0.46	1.87	5	1
1:A:94:THR:HG22	1:A:145:VAL:HG11	0.46	1.88	6	1
1:A:112:PRO:O	1:A:114:ALA:N	0.46	2.48	6	1
1:B:58:VAL:CG1	1:B:79:ILE:HD13	0.46	2.41	6	1
1:A:41:PHE:CD2	1:A:71:ARG:CB	0.46	2.97	7	1
1:D:102:VAL:HG13	1:D:153:LEU:HD13	0.46	1.86	7	1
1:F:61:ASP:CB	1:F:128:TYR:CD1	0.46	2.99	7	1
1:B:165:ARG:CA	1:B:182:VAL:HG21	0.46	2.41	8	1
1:E:58:VAL:HG22	1:E:58:VAL:O	0.46	2.10	8	1
1:B:61:ASP:C	1:B:62:THR:HG23	0.46	2.31	9	1
1:D:102:VAL:CG2	1:D:150:ALA:HB2	0.46	2.40	9	2
1:B:102:VAL:CG1	1:B:150:ALA:HB2	0.46	2.41	11	1
1:E:41:PHE:CD1	1:E:71:ARG:CB	0.46	2.99	11	1
1:F:50:ILE:HG13	1:F:117:LEU:CD2	0.46	2.40	11	1
1:C:48:ARG:CG	1:C:63:ILE:HG23	0.46	2.40	15	1
1:F:42:THR:HG22	1:F:68:LEU:CD1	0.46	2.36	15	1
1:F:68:LEU:HG	1:F:68:LEU:O	0.46	2.11	15	1
1:A:80:ILE:C	1:A:80:ILE:HD12	0.46	2.31	2	1
1:B:62:THR:O	1:B:80:ILE:CA	0.46	2.59	2	2
1:A:48:ARG:HB3	1:A:64:LEU:O	0.46	2.11	3	2
1:B:43:VAL:HG12	1:B:65:ALA:H	0.46	1.64	13	2
1:E:41:PHE:CB	1:E:71:ARG:HB2	0.46	2.41	3	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:41:PHE:CE2	1:A:71:ARG:NH2	0.46	2.84	4	1
1:D:132:VAL:CG1	1:D:175:PHE:CE2	0.46	2.98	4	1
1:F:62:THR:N	1:F:81:TYR:CB	0.46	2.79	5	1
1:D:117:LEU:HG	1:D:118:PRO:N	0.46	2.26	7	1
1:B:183:ALA:C	1:B:184:ILE:HG23	0.46	2.31	8	1
1:A:64:LEU:CB	1:A:80:ILE:HG21	0.46	2.41	9	1
1:A:83:ILE:HD12	1:F:128:TYR:OH	0.46	2.11	9	1
1:C:66:GLU:O	1:C:66:GLU:CG	0.46	2.63	10	1
1:F:50:ILE:CG1	1:F:62:THR:OG1	0.46	2.63	12	1
1:F:50:ILE:CG2	1:F:62:THR:CG2	0.46	2.93	12	1
1:A:172:ALA:HB2	1:A:179:LEU:HB2	0.46	1.86	15	1
1:E:154:ILE:CD1	1:E:189:PHE:CE2	0.46	2.99	15	1
1:B:72:ILE:HB	1:B:73:PRO:HD3	0.46	1.87	4	7
1:F:124:LEU:HD13	1:F:175:PHE:HD2	0.46	1.71	1	1
1:B:84:ARG:O	1:B:85:ALA:HB3	0.46	2.10	2	1
1:C:50:ILE:CG1	1:C:62:THR:OG1	0.46	2.62	2	1
1:D:177:LEU:O	1:D:178:ILE:CG2	0.46	2.63	6	3
1:B:149:ASN:O	1:B:153:LEU:HD12	0.46	2.10	3	1
1:F:64:LEU:CD1	1:F:117:LEU:HD12	0.46	2.41	3	1
1:A:90:ILE:O	1:A:105:SER:CB	0.46	2.62	4	3
1:A:141:LEU:HD13	1:A:141:LEU:C	0.46	2.30	4	1
1:B:48:ARG:HB2	1:B:63:ILE:CG1	0.46	2.41	5	1
1:C:104:ILE:HD12	1:C:184:ILE:HD11	0.46	1.86	5	1
1:A:75:PHE:O	1:A:75:PHE:CD1	0.46	2.69	7	1
1:C:50:ILE:HG21	1:C:117:LEU:HD23	0.46	1.88	7	1
1:F:63:ILE:CD1	1:F:83:ILE:HD11	0.46	2.40	7	1
1:D:106:LEU:C	1:D:106:LEU:HD23	0.46	2.31	8	1
1:D:108:VAL:HG11	1:D:136:ILE:HD11	0.46	1.88	9	1
1:A:104:ILE:CD1	1:A:145:VAL:HG12	0.46	2.37	10	1
1:F:129:GLU:HB2	1:F:133:LEU:HD23	0.46	1.87	10	1
1:C:69:HIS:O	1:C:70:PHE:CG	0.46	2.69	11	1
1:E:62:THR:CG2	1:E:121:TYR:CG	0.46	2.99	14	2
1:A:161:SER:HA	1:A:184:ILE:HD11	0.46	1.88	12	1
1:E:106:LEU:HD23	1:E:141:LEU:HD12	0.46	1.86	13	1
1:C:73:PRO:HG2	1:C:76:GLN:CG	0.46	2.41	15	1
1:E:105:SER:HA	1:E:141:LEU:HD11	0.46	1.86	1	1
1:B:129:GLU:HA	1:B:133:LEU:HD23	0.46	1.86	2	1
1:C:72:ILE:HB	1:C:73:PRO:HD3	0.46	1.86	2	3
1:F:177:LEU:HD23	1:F:179:LEU:CD2	0.46	2.41	2	1
1:F:140:VAL:CG1	1:F:144:VAL:HG23	0.46	2.40	3	1
1:C:104:ILE:HG21	1:C:145:VAL:CG1	0.46	2.33	4	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:E:47:HIS:O	1:E:65:ALA:O	0.46	2.33	4	1
1:E:50:ILE:HG21	1:E:117:LEU:CD2	0.46	2.41	4	1
1:B:64:LEU:HB3	1:B:80:ILE:CG1	0.46	2.40	7	3
1:D:50:ILE:CG1	1:D:117:LEU:HD13	0.46	2.41	7	1
1:D:71:ARG:O	1:D:72:ILE:HG22	0.46	2.11	7	1
1:E:60:GLN:HG3	1:E:79:ILE:HD11	0.46	1.88	7	1
1:E:104:ILE:CD1	1:E:141:LEU:HD21	0.46	2.41	7	1
1:A:165:ARG:CB	1:A:182:VAL:HG21	0.46	2.40	8	1
1:A:49:ALA:HB1	1:A:70:PHE:CE1	0.46	2.46	9	1
1:E:60:GLN:N	1:E:121:TYR:CE2	0.46	2.84	10	1
1:D:91:SER:N	1:D:105:SER:CB	0.46	2.79	11	1
1:E:52:PHE:HB2	1:E:59:GLN:CG	0.46	2.41	13	2
1:C:105:SER:CA	1:C:141:LEU:HD11	0.46	2.40	15	1
1:B:64:LEU:HD12	1:B:116:GLU:HA	0.46	1.86	1	1
1:E:64:LEU:HD21	1:E:118:PRO:CD	0.46	2.41	1	1
1:A:104:ILE:O	1:A:104:ILE:CG2	0.46	2.64	12	2
1:E:81:TYR:CE2	1:E:128:TYR:OH	0.46	2.68	3	1
1:B:41:PHE:CD1	1:B:42:THR:N	0.46	2.84	4	1
1:C:106:LEU:HD12	1:C:184:ILE:CG2	0.46	2.41	4	1
1:E:48:ARG:HB3	1:E:63:ILE:CA	0.46	2.41	4	1
1:E:61:ASP:O	1:E:117:LEU:HB2	0.46	2.11	4	1
1:F:63:ILE:CG1	1:F:117:LEU:HG	0.46	2.41	12	2
1:B:189:PHE:CD1	1:B:189:PHE:N	0.46	2.84	6	1
1:D:71:ARG:C	1:D:72:ILE:HG22	0.46	2.31	7	2
1:A:165:ARG:CD	1:A:182:VAL:HG11	0.46	2.41	8	1
1:E:71:ARG:O	1:E:73:PRO:N	0.46	2.49	8	1
1:E:83:ILE:HD11	1:E:111:ARG:NH2	0.46	2.25	9	1
1:C:43:VAL:HB	1:C:67:GLY:H	0.46	1.71	10	1
1:A:115:GLN:HB2	1:A:177:LEU:HD13	0.46	1.88	11	1
1:B:105:SER:CB	1:B:184:ILE:HD13	0.46	2.40	11	1
1:D:160:VAL:HG12	1:D:164:ILE:HD12	0.46	1.88	11	1
1:A:148:PHE:CZ	1:A:163:LEU:HD13	0.46	2.46	14	1
1:E:168:LEU:HD13	1:E:168:LEU:O	0.46	2.11	15	1
1:F:173:LYS:HG3	1:F:178:ILE:HD11	0.46	1.88	15	1
1:A:50:ILE:HG12	1:A:79:ILE:O	0.46	2.11	13	5
1:D:105:SER:O	1:D:106:LEU:HD22	0.46	2.10	1	1
1:E:36:VAL:O	1:E:39:SER:O	0.46	2.34	3	10
1:F:40:VAL:HG22	1:F:41:PHE:N	0.46	2.26	5	12
1:F:50:ILE:CG2	1:F:62:THR:O	0.46	2.64	1	1
1:F:52:PHE:CE2	1:F:77:TYR:CB	0.46	2.99	1	1
1:B:64:LEU:HD12	1:B:64:LEU:C	0.46	2.30	2	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:69:HIS:O	1:B:70:PHE:HB2	0.46	2.11	12	6
1:B:133:LEU:HB3	1:B:134:PRO:HD3	0.46	1.87	14	4
1:C:50:ILE:CG2	1:C:62:THR:OG1	0.46	2.62	8	4
1:E:40:VAL:HG12	1:E:41:PHE:N	0.46	2.25	2	2
1:F:68:LEU:N	1:F:68:LEU:CD2	0.46	2.76	2	1
1:F:144:VAL:CG1	1:F:163:LEU:HD23	0.46	2.41	2	1
1:B:43:VAL:HB	1:B:66:GLU:N	0.46	2.25	3	2
1:D:104:ILE:HG23	1:D:141:LEU:HD21	0.46	1.87	3	1
1:B:47:HIS:HB2	1:B:64:LEU:C	0.46	2.30	4	2
1:B:50:ILE:O	1:B:70:PHE:CE2	0.46	2.69	4	1
1:A:50:ILE:HG12	1:A:62:THR:O	0.46	2.07	5	2
1:B:91:SER:CB	1:B:187:LEU:HD21	0.46	2.41	5	1
1:C:48:ARG:CB	1:C:63:ILE:HG12	0.46	2.41	6	1
1:B:49:ALA:HB1	1:B:64:LEU:CD1	0.46	2.41	9	4
1:B:72:ILE:CG2	1:B:73:PRO:HD2	0.46	2.41	9	2
1:B:133:LEU:O	1:B:137:VAL:HG13	0.46	2.10	7	1
1:D:40:VAL:CG2	1:D:42:THR:HG22	0.46	2.41	8	1
1:D:157:ARG:HB2	1:D:186:GLU:CG	0.46	2.41	9	1
1:A:58:VAL:HG11	1:B:45:GLY:O	0.46	2.11	10	1
1:C:41:PHE:CE1	1:C:78:PRO:CG	0.46	2.99	10	1
1:D:75:PHE:O	1:D:75:PHE:CD2	0.46	2.68	10	1
1:D:119:SER:CB	1:D:128:TYR:CD2	0.46	2.98	11	1
1:A:104:ILE:HD13	1:A:105:SER:N	0.46	2.26	12	1
1:C:90:ILE:HD13	1:C:141:LEU:HD22	0.46	1.87	12	1
1:C:137:VAL:HG13	1:C:138:ASN:N	0.46	2.25	12	1
1:B:184:ILE:HD13	1:B:184:ILE:C	0.46	2.31	13	1
1:A:106:LEU:HD13	1:A:107:ARG:H	0.46	1.68	14	1
1:A:124:LEU:CD1	1:A:175:PHE:CZ	0.46	2.99	14	1
1:E:48:ARG:HB3	1:E:64:LEU:O	0.46	2.11	14	1
1:F:128:TYR:OH	1:F:178:ILE:HD13	0.46	2.10	14	1
1:D:52:PHE:CZ	1:D:58:VAL:N	0.46	2.84	15	1
1:A:132:VAL:CG2	1:A:175:PHE:CE2	0.46	2.99	1	1
1:C:40:VAL:HG22	1:C:41:PHE:N	0.46	2.26	7	4
1:E:40:VAL:HG22	1:E:41:PHE:N	0.46	2.26	1	11
1:A:134:PRO:O	1:A:138:ASN:N	0.46	2.49	12	2
1:B:52:PHE:CD2	1:B:59:GLN:HB2	0.46	2.46	2	1
1:C:164:ILE:CG2	1:C:168:LEU:HD23	0.46	2.39	3	1
1:A:40:VAL:HG22	1:A:41:PHE:N	0.46	2.26	5	7
1:A:164:ILE:HG13	1:A:168:LEU:HD23	0.46	1.86	5	1
1:F:102:VAL:HG22	1:F:150:ALA:CA	0.46	2.41	5	1
1:D:124:LEU:HD13	1:D:175:PHE:HB3	0.46	1.87	7	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:E:58:VAL:O	1:E:58:VAL:HG13	0.46	2.11	8	1
1:F:132:VAL:HG23	1:F:133:LEU:N	0.46	2.26	8	1
1:B:62:THR:CA	1:B:117:LEU:HB2	0.46	2.41	10	2
1:F:124:LEU:HD12	1:F:127:ASP:O	0.46	2.10	9	1
1:C:120:MET:O	1:C:124:LEU:CB	0.46	2.64	10	1
1:A:63:ILE:HD11	1:A:112:PRO:HB2	0.46	1.86	13	1
1:E:165:ARG:CD	1:E:182:VAL:HG12	0.46	2.41	13	1
1:B:34:TYR:CE2	1:C:34:TYR:CE1	0.46	3.04	14	1
1:A:154:ILE:HG23	1:A:155:THR:N	0.45	2.25	3	1
1:B:36:VAL:O	1:B:39:SER:O	0.45	2.34	5	3
1:E:64:LEU:O	1:E:65:ALA:O	0.45	2.34	3	3
1:F:189:PHE:N	1:F:189:PHE:CD2	0.45	2.84	6	2
1:A:63:ILE:H	1:A:117:LEU:HB3	0.45	1.71	4	1
1:D:164:ILE:HD13	1:D:164:ILE:C	0.45	2.30	6	1
1:B:63:ILE:O	1:B:64:LEU:HB2	0.45	2.10	7	2
1:F:52:PHE:CD1	1:F:57:GLY:O	0.45	2.69	7	1
1:C:132:VAL:HG13	1:C:175:PHE:CZ	0.45	2.47	8	1
1:D:80:ILE:HD13	1:D:80:ILE:O	0.45	2.11	9	1
1:A:148:PHE:CE1	1:A:163:LEU:CD1	0.45	2.99	10	1
1:B:107:ARG:N	1:B:184:ILE:HG21	0.45	2.26	11	1
1:D:133:LEU:HB3	1:D:134:PRO:HD3	0.45	1.88	13	1
1:F:59:GLN:CB	1:F:79:ILE:HB	0.45	2.42	14	1
1:A:82:ASP:O	1:A:83:ILE:CG2	0.45	2.64	15	1
1:C:63:ILE:HD12	1:C:81:TYR:O	0.45	2.10	15	1
1:F:106:LEU:HD13	1:F:106:LEU:C	0.45	2.32	15	1
1:D:136:ILE:N	1:D:136:ILE:CD1	0.45	2.79	1	1
1:F:63:ILE:N	1:F:117:LEU:CB	0.45	2.79	1	1
1:F:106:LEU:H	1:F:141:LEU:HD13	0.45	1.69	2	1
1:D:165:ARG:O	1:D:169:THR:HG23	0.45	2.10	14	2
1:F:50:ILE:CG2	1:F:117:LEU:CD1	0.45	2.91	3	1
1:F:156:GLN:O	1:F:157:ARG:CB	0.45	2.63	3	1
1:A:52:PHE:CZ	1:A:77:TYR:HB3	0.45	2.46	4	1
1:E:72:ILE:HB	1:E:73:PRO:CD	0.45	2.41	6	2
1:F:55:ILE:HD12	1:F:75:PHE:CZ	0.45	2.45	4	1
1:F:104:ILE:HG23	1:F:141:LEU:HG	0.45	1.88	4	1
1:A:36:VAL:O	1:A:39:SER:O	0.45	2.34	14	6
1:A:41:PHE:CD1	1:A:71:ARG:CB	0.45	2.99	5	1
1:D:134:PRO:O	1:D:138:ASN:N	0.45	2.49	8	2
1:B:128:TYR:N	1:B:128:TYR:CD1	0.45	2.83	8	1
1:A:111:ARG:H	1:A:178:ILE:HD12	0.45	1.72	9	1
1:C:189:PHE:N	1:C:189:PHE:CD1	0.45	2.84	12	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:102:VAL:HG21	1:B:150:ALA:HA	0.45	1.88	13	1
1:D:91:SER:C	1:D:104:ILE:HB	0.45	2.32	13	1
1:B:104:ILE:HD12	1:B:145:VAL:HG23	0.45	1.87	1	1
1:A:62:THR:C	1:A:63:ILE:CG1	0.45	2.85	15	3
1:B:63:ILE:H	1:B:81:TYR:H	0.45	1.52	3	1
1:E:165:ARG:HA	1:E:182:VAL:HG21	0.45	1.88	4	2
1:B:60:GLN:O	1:B:62:THR:HG23	0.45	2.11	8	3
1:E:62:THR:O	1:E:81:TYR:HB3	0.45	2.11	15	4
1:F:41:PHE:HB3	1:F:71:ARG:CB	0.45	2.41	14	2
1:F:106:LEU:HB3	1:F:141:LEU:HD11	0.45	1.88	9	1
1:F:129:GLU:HB3	1:F:133:LEU:HD13	0.45	1.88	9	1
1:C:50:ILE:HD11	1:C:80:ILE:HG22	0.45	1.88	10	1
1:D:165:ARG:HG2	1:D:182:VAL:HG21	0.45	1.88	10	1
1:A:62:THR:HB	1:A:117:LEU:HB2	0.45	1.88	11	1
1:A:94:THR:O	1:A:145:VAL:HG21	0.45	2.11	11	1
1:B:184:ILE:C	1:B:184:ILE:HD12	0.45	2.31	11	1
1:C:144:VAL:HG11	1:C:164:ILE:HG13	0.45	1.87	11	1
1:C:59:GLN:HA	1:C:121:TYR:CD1	0.45	2.47	12	1
1:A:121:TYR:CD1	1:A:122:GLN:N	0.45	2.84	13	1
1:F:63:ILE:HA	1:F:81:TYR:N	0.45	2.26	14	1
1:F:90:ILE:O	1:F:105:SER:HB2	0.45	2.11	14	1
1:C:62:THR:HA	1:C:117:LEU:HD23	0.45	1.87	15	1
1:F:144:VAL:HG11	1:F:164:ILE:CG1	0.45	2.42	2	1
1:A:90:ILE:CD1	1:A:185:THR:O	0.45	2.65	3	1
1:B:106:LEU:HD23	1:B:164:ILE:HD13	0.45	1.88	4	1
1:E:49:ALA:CB	1:E:70:PHE:CE2	0.45	2.99	4	1
1:E:102:VAL:CG1	1:E:150:ALA:HB2	0.45	2.42	4	1
1:C:52:PHE:CE1	1:C:77:TYR:CB	0.45	3.00	5	2
1:C:153:LEU:CD2	1:C:160:VAL:HG21	0.45	2.41	5	1
1:E:128:TYR:CE2	1:E:132:VAL:CG2	0.45	2.99	5	1
1:E:43:VAL:HG21	1:E:47:HIS:C	0.45	2.32	6	1
1:B:72:ILE:CG2	1:B:76:GLN:HB3	0.45	2.42	9	2
1:D:178:ILE:N	1:D:178:ILE:HD12	0.45	2.27	7	1
1:E:52:PHE:O	1:E:77:TYR:N	0.45	2.49	7	2
1:B:153:LEU:HD22	1:B:160:VAL:HG11	0.45	1.89	9	1
1:A:117:LEU:HG	1:A:118:PRO:HD3	0.45	1.86	11	1
1:A:75:PHE:CD1	1:A:75:PHE:N	0.45	2.84	13	1
1:D:129:GLU:O	1:D:133:LEU:CB	0.45	2.65	13	1
1:B:108:VAL:HG12	1:B:137:VAL:HG21	0.45	1.88	15	1
1:D:165:ARG:HG3	1:D:182:VAL:HG11	0.45	1.83	15	1
1:B:48:ARG:CG	1:B:63:ILE:HB	0.45	2.41	1	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:C:77:TYR:CD1	1:C:78:PRO:CD	0.45	2.99	1	2
1:A:106:LEU:O	1:A:137:VAL:CG1	0.45	2.64	2	1
1:F:58:VAL:HG22	1:F:59:GLN:N	0.45	2.27	2	1
1:A:177:LEU:O	1:A:178:ILE:CG2	0.45	2.64	3	4
1:B:124:LEU:HD13	1:B:127:ASP:HA	0.45	1.88	3	1
1:E:54:ARG:HG3	1:E:55:ILE:HG23	0.45	1.87	3	1
1:B:98:ASP:O	1:B:100:GLN:N	0.45	2.50	4	1
1:C:62:THR:O	1:C:63:ILE:CG2	0.45	2.59	4	1
1:E:117:LEU:O	1:E:121:TYR:N	0.45	2.48	4	1
1:C:61:ASP:O	1:C:62:THR:CG2	0.45	2.60	5	2
1:D:41:PHE:HB3	1:D:71:ARG:HB3	0.45	1.86	5	2
1:D:86:ARG:NH2	1:D:133:LEU:HD21	0.45	2.26	5	1
1:C:62:THR:O	1:C:81:TYR:CB	0.45	2.64	6	1
1:D:45:GLY:HA2	1:D:66:GLU:HA	0.45	1.87	6	1
1:B:63:ILE:HA	1:B:81:TYR:H	0.45	1.71	9	3
1:D:141:LEU:HD23	1:D:164:ILE:CD1	0.45	2.26	7	1
1:B:104:ILE:CG2	1:B:141:LEU:HD11	0.45	2.42	8	1
1:B:178:ILE:N	1:B:178:ILE:HD12	0.45	2.26	8	1
1:C:41:PHE:O	1:C:70:PHE:CD2	0.45	2.69	8	1
1:A:28:GLY:HA2	1:B:27:LEU:HD21	0.45	1.89	9	1
1:D:102:VAL:HG22	1:D:150:ALA:CB	0.45	2.41	9	1
1:E:62:THR:HG23	1:E:121:TYR:CD1	0.45	2.46	9	1
1:D:90:ILE:O	1:D:105:SER:CB	0.45	2.65	10	1
1:C:69:HIS:O	1:C:70:PHE:CD1	0.45	2.69	11	1
1:F:91:SER:HB2	1:F:187:LEU:HD21	0.45	1.89	11	1
1:A:108:VAL:HG11	1:A:133:LEU:HD23	0.45	1.88	12	1
1:F:50:ILE:HG21	1:F:59:GLN:O	0.45	2.10	13	1
1:A:72:ILE:HD12	1:A:76:GLN:HB3	0.45	1.89	15	1
1:A:41:PHE:HB3	1:A:71:ARG:HB2	0.45	1.87	1	4
1:B:155:THR:HG22	1:B:159:GLN:HB2	0.45	1.88	1	1
1:E:62:THR:HA	1:E:117:LEU:CG	0.45	2.42	1	4
1:F:183:ALA:C	1:F:184:ILE:HG23	0.45	2.32	10	4
1:A:124:LEU:HD23	1:A:124:LEU:C	0.45	2.31	2	1
1:E:137:VAL:HG23	1:E:138:ASN:N	0.45	2.27	2	3
1:A:106:LEU:HG	1:A:184:ILE:HD11	0.45	1.88	3	1
1:C:74:TRP:CD1	1:C:74:TRP:N	0.45	2.84	3	1
1:C:41:PHE:HB3	1:C:71:ARG:HB2	0.45	1.88	4	1
1:A:157:ARG:O	1:A:184:ILE:HG21	0.45	2.11	5	1
1:A:62:THR:N	1:A:81:TYR:CB	0.45	2.80	6	3
1:D:71:ARG:O	1:D:72:ILE:CG2	0.45	2.64	7	1
1:E:62:THR:HG22	1:E:63:ILE:N	0.45	2.27	8	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:140:VAL:HG13	1:A:141:LEU:N	0.45	2.27	10	1
1:C:43:VAL:HB	1:C:67:GLY:O	0.45	2.11	11	1
1:D:165:ARG:HB2	1:D:182:VAL:HG21	0.45	1.89	11	1
1:D:105:SER:O	1:D:184:ILE:CG1	0.45	2.64	12	1
1:B:42:THR:C	1:B:43:VAL:CG2	0.45	2.84	13	1
1:D:90:ILE:O	1:D:106:LEU:CB	0.45	2.65	13	1
1:D:179:LEU:C	1:D:179:LEU:HD23	0.45	2.32	13	1
1:B:52:PHE:CZ	1:B:58:VAL:CG2	0.45	2.99	14	1
1:F:63:ILE:HA	1:F:81:TYR:H	0.45	1.71	14	1
1:A:90:ILE:O	1:A:105:SER:HB2	0.45	2.12	15	1
1:E:184:ILE:HG22	1:E:186:GLU:OE1	0.45	2.12	15	1
1:A:63:ILE:N	1:A:117:LEU:CB	0.45	2.80	13	5
1:A:148:PHE:CE1	1:A:160:VAL:CG2	0.45	2.98	1	1
1:C:63:ILE:HG12	1:C:81:TYR:CD2	0.45	2.47	1	1
1:E:102:VAL:CG1	1:E:153:LEU:HD13	0.45	2.41	1	1
1:A:183:ALA:C	1:A:184:ILE:HG23	0.45	2.32	10	5
1:E:39:SER:C	1:E:40:VAL:HG23	0.45	2.32	2	2
1:C:50:ILE:HG12	1:C:62:THR:HB	0.45	1.87	13	3
1:E:165:ARG:CD	1:E:182:VAL:HG11	0.45	2.42	4	1
1:C:61:ASP:HA	1:C:81:TYR:HB2	0.45	1.89	5	1
1:D:44:GLU:O	1:D:66:GLU:CA	0.45	2.65	5	1
1:F:62:THR:HG23	1:F:121:TYR:CD1	0.45	2.46	6	1
1:A:77:TYR:CG	1:A:78:PRO:CD	0.45	3.00	7	1
1:C:47:HIS:C	1:C:48:ARG:HD3	0.45	2.32	9	1
1:E:133:LEU:O	1:E:137:VAL:HG22	0.45	2.10	9	1
1:E:51:PHE:CD1	1:E:76:GLN:NE2	0.45	2.85	10	1
1:A:25:LEU:HD21	1:B:23:LEU:CD1	0.45	2.37	11	1
1:B:126:LEU:HD21	1:C:46:GLY:O	0.45	2.12	11	1
1:E:52:PHE:CD2	1:E:58:VAL:HG22	0.45	2.47	11	2
1:F:71:ARG:O	1:F:72:ILE:C	0.45	2.55	11	1
1:E:63:ILE:HG12	1:E:81:TYR:CD1	0.45	2.46	12	1
1:F:102:VAL:HG13	1:F:102:VAL:O	0.45	2.11	14	1
1:F:40:VAL:HG12	1:F:41:PHE:N	0.45	2.26	15	1
1:B:50:ILE:HG12	1:B:62:THR:O	0.45	2.11	1	2
1:C:50:ILE:CD1	1:C:80:ILE:CG2	0.45	2.95	2	1
1:B:44:GLU:O	1:B:45:GLY:O	0.45	2.34	9	2
1:B:79:ILE:O	1:B:79:ILE:CG2	0.45	2.63	3	1
1:D:71:ARG:CG	1:D:78:PRO:CG	0.45	2.95	3	1
1:E:1:MET:O	1:E:2:ALA:HB3	0.45	2.11	3	1
1:E:50:ILE:HG12	1:E:62:THR:O	0.45	2.12	3	2
1:E:58:VAL:HG22	1:E:59:GLN:N	0.45	2.27	3	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:F:94:THR:HG21	1:F:102:VAL:O	0.45	2.12	3	1
1:C:62:THR:HG22	1:C:118:PRO:N	0.45	2.27	4	1
1:F:72:ILE:HB	1:F:73:PRO:CD	0.45	2.42	4	2
1:E:41:PHE:HB2	1:E:70:PHE:HB3	0.45	1.87	6	1
1:E:48:ARG:HB2	1:E:63:ILE:CG2	0.45	2.41	9	2
1:E:77:TYR:CG	1:E:78:PRO:CD	0.45	3.00	6	1
1:F:77:TYR:CG	1:F:78:PRO:CD	0.45	3.00	9	1
1:D:121:TYR:O	1:D:122:GLN:C	0.45	2.54	11	1
1:D:129:GLU:O	1:D:134:PRO:HD2	0.45	2.12	11	1
1:E:175:PHE:CE1	1:E:178:ILE:HD12	0.45	2.46	11	1
1:A:79:ILE:O	1:A:79:ILE:CD1	0.45	2.65	12	2
1:B:52:PHE:CD1	1:B:53:ASN:N	0.45	2.85	12	1
1:C:62:THR:O	1:C:117:LEU:HB2	0.45	2.12	12	1
1:F:50:ILE:HD11	1:F:63:ILE:HA	0.45	1.88	12	1
1:B:59:GLN:NE2	1:B:121:TYR:CD2	0.45	2.84	15	1
1:E:71:ARG:C	1:E:72:ILE:HG22	0.45	2.32	15	1
1:C:63:ILE:N	1:C:117:LEU:CB	0.45	2.80	5	5
1:E:48:ARG:CA	1:E:64:LEU:O	0.45	2.65	3	6
1:A:72:ILE:CB	1:A:73:PRO:CD	0.45	2.95	9	2
1:C:41:PHE:CD2	1:C:41:PHE:N	0.45	2.83	2	1
1:B:45:GLY:O	1:B:66:GLU:N	0.45	2.50	3	1
1:D:94:THR:O	1:D:102:VAL:HG13	0.45	2.11	3	1
1:F:50:ILE:HD11	1:F:80:ILE:CG1	0.45	2.42	3	1
1:A:52:PHE:CZ	1:A:77:TYR:CB	0.45	3.00	4	1
1:F:41:PHE:O	1:F:70:PHE:CD1	0.45	2.70	4	1
1:C:128:TYR:CG	1:C:129:GLU:N	0.45	2.85	14	2
1:E:72:ILE:HB	1:E:73:PRO:HD3	0.45	1.89	9	3
1:C:64:LEU:CD1	1:C:80:ILE:HG21	0.45	2.40	10	1
1:B:58:VAL:HG23	1:B:121:TYR:HE2	0.45	1.72	11	1
1:A:144:VAL:HG21	1:A:164:ILE:HD13	0.45	1.88	12	1
1:E:94:THR:CG2	1:E:145:VAL:HG21	0.45	2.42	12	1
1:E:106:LEU:HD12	1:E:184:ILE:HG12	0.45	1.89	14	1
1:E:154:ILE:HD13	1:E:154:ILE:C	0.45	2.33	14	1
1:B:164:ILE:HD12	1:B:164:ILE:N	0.45	2.26	15	1
1:D:109:LEU:HB3	1:D:179:LEU:HD13	0.45	1.88	15	1
1:E:164:ILE:HG23	1:E:165:ARG:N	0.45	2.27	15	1
1:A:49:ALA:HA	1:A:50:ILE:HD13	0.45	1.87	1	1
1:B:144:VAL:HG22	1:B:148:PHE:HE1	0.45	1.70	2	1
1:C:111:ARG:H	1:C:178:ILE:HD11	0.45	1.72	2	1
1:B:51:PHE:O	1:B:51:PHE:CD1	0.45	2.69	3	2
1:D:71:ARG:HG2	1:D:78:PRO:HD3	0.45	1.89	3	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:E:61:ASP:N	1:E:81:TYR:HB2	0.45	2.27	4	1
1:E:183:ALA:C	1:E:184:ILE:HG23	0.45	2.32	12	3
1:E:136:ILE:HG13	1:E:137:VAL:HG23	0.45	1.88	5	1
1:C:97:LYS:CD	1:C:97:LYS:N	0.45	2.80	6	1
1:F:68:LEU:C	1:F:68:LEU:HD23	0.45	2.32	6	1
1:B:45:GLY:C	1:B:65:ALA:O	0.45	2.54	7	1
1:D:116:GLU:O	1:D:120:MET:CB	0.45	2.65	7	2
1:C:43:VAL:HG11	1:C:47:HIS:O	0.45	2.11	8	1
1:A:41:PHE:CB	1:A:71:ARG:CB	0.45	2.94	9	1
1:A:47:HIS:HB3	1:A:64:LEU:N	0.45	2.28	9	1
1:A:140:VAL:HG23	1:A:141:LEU:N	0.45	2.27	9	3
1:D:25:LEU:HD13	1:E:27:LEU:HD21	0.45	1.89	9	1
1:A:63:ILE:H	1:A:117:LEU:HB2	0.45	1.70	10	1
1:B:104:ILE:HG23	1:B:141:LEU:HD21	0.45	1.87	10	1
1:C:104:ILE:HD11	1:C:153:LEU:HD13	0.45	1.89	10	1
1:A:48:ARG:HB3	1:A:63:ILE:CA	0.45	2.42	11	1
1:B:104:ILE:HG13	1:B:145:VAL:HG23	0.45	1.88	13	1
1:C:65:ALA:HB2	1:C:115:GLN:OE1	0.45	2.11	13	1
1:D:92:SER:O	1:D:104:ILE:HA	0.45	2.12	13	1
1:D:124:LEU:CD2	1:D:128:TYR:CE2	0.45	3.00	13	1
1:E:41:PHE:CG	1:E:71:ARG:CG	0.45	2.99	13	1
1:D:106:LEU:HD11	1:D:137:VAL:CG1	0.45	2.42	15	1
1:B:41:PHE:CD1	1:B:70:PHE:O	0.44	2.70	1	2
1:C:153:LEU:HD12	1:C:160:VAL:HG21	0.44	1.88	1	1
1:E:62:THR:O	1:E:81:TYR:CB	0.44	2.65	2	3
1:E:63:ILE:N	1:E:117:LEU:CB	0.44	2.80	5	6
1:F:50:ILE:HG12	1:F:79:ILE:O	0.44	2.12	9	2
1:B:58:VAL:HG21	1:C:45:GLY:O	0.44	2.12	4	2
1:C:43:VAL:HB	1:C:65:ALA:HA	0.44	1.89	2	1
1:D:1:MET:O	1:D:3:GLN:N	0.44	2.51	2	1
1:E:127:ASP:O	1:E:132:VAL:HG13	0.44	2.12	2	1
1:A:71:ARG:C	1:A:73:PRO:HD3	0.44	2.33	4	2
1:F:77:TYR:CD1	1:F:78:PRO:HD2	0.44	2.47	4	1
1:F:92:SER:HB2	1:F:141:LEU:HD21	0.44	1.88	4	1
1:B:113:ASN:HD22	1:B:179:LEU:HD21	0.44	1.72	5	1
1:D:109:LEU:CB	1:D:182:VAL:CG2	0.44	2.95	5	1
1:B:90:ILE:HD13	1:B:106:LEU:O	0.44	2.13	6	1
1:F:114:ALA:O	1:F:116:GLU:N	0.44	2.50	6	1
1:D:54:ARG:HD3	1:E:68:LEU:HD13	0.44	1.89	7	1
1:E:189:PHE:CD1	1:E:189:PHE:N	0.44	2.85	7	1
1:C:79:ILE:HD13	1:D:45:GLY:HA2	0.44	1.89	8	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:C:48:ARG:NE	1:C:64:LEU:O	0.44	2.49	9	1
1:C:47:HIS:CD2	1:C:63:ILE:CG2	0.44	3.00	10	1
1:F:58:VAL:HG23	1:F:121:TYR:HE1	0.44	1.70	11	1
1:D:106:LEU:CD2	1:D:164:ILE:HG21	0.44	2.42	12	1
1:E:62:THR:C	1:E:63:ILE:CG1	0.44	2.86	13	3
1:A:92:SER:OG	1:A:104:ILE:N	0.44	2.50	15	1
1:F:39:SER:C	1:F:40:VAL:HG23	0.44	2.32	15	1
1:F:42:THR:O	1:F:43:VAL:O	0.44	2.35	15	1
1:F:128:TYR:O	1:F:128:TYR:CD2	0.44	2.70	15	1
1:B:43:VAL:HG13	1:B:70:PHE:CD1	0.44	2.48	1	1
1:C:48:ARG:O	1:C:63:ILE:HG22	0.44	2.12	1	1
1:C:144:VAL:HG23	1:C:145:VAL:N	0.44	2.27	12	2
1:E:64:LEU:HD11	1:E:118:PRO:HG3	0.44	1.89	1	1
1:B:105:SER:O	1:B:184:ILE:CD1	0.44	2.65	2	1
1:C:48:ARG:O	1:C:63:ILE:C	0.44	2.55	11	3
1:A:48:ARG:CA	1:A:64:LEU:O	0.44	2.66	15	2
1:F:48:ARG:O	1:F:80:ILE:CD1	0.44	2.65	3	1
1:F:117:LEU:C	1:F:117:LEU:CD2	0.44	2.80	3	1
1:A:115:GLN:CB	1:A:177:LEU:HD23	0.44	2.42	4	1
1:D:121:TYR:CD2	1:D:121:TYR:C	0.44	2.90	4	3
1:E:61:ASP:HA	1:E:81:TYR:CG	0.44	2.48	6	2
1:B:116:GLU:O	1:B:120:MET:CG	0.44	2.64	7	1
1:F:41:PHE:CD2	1:F:70:PHE:O	0.44	2.70	14	2
1:A:72:ILE:HB	1:A:73:PRO:CD	0.44	2.41	9	1
1:B:120:MET:HB3	1:B:124:LEU:HD13	0.44	1.88	9	1
1:A:126:LEU:HD12	1:A:127:ASP:OD1	0.44	2.13	11	1
1:D:52:PHE:CD2	1:D:77:TYR:CB	0.44	3.00	12	1
1:B:172:ALA:O	1:B:175:PHE:CE1	0.44	2.71	14	2
1:D:109:LEU:HD22	1:D:180:ASP:OD2	0.44	2.12	14	1
1:F:64:LEU:HB2	1:F:80:ILE:HB	0.44	1.87	15	1
1:B:53:ASN:OD1	1:B:53:ASN:N	0.44	2.50	1	1
1:B:173:LYS:HA	1:B:176:SER:O	0.44	2.12	1	1
1:B:177:LEU:C	1:B:178:ILE:HG23	0.44	2.33	2	11
1:C:177:LEU:C	1:C:178:ILE:HG23	0.44	2.33	3	3
1:C:183:ALA:C	1:C:184:ILE:HG23	0.44	2.32	7	4
1:E:52:PHE:CE1	1:E:57:GLY:O	0.44	2.70	6	5
1:F:63:ILE:H	1:F:117:LEU:CG	0.44	2.25	1	1
1:C:70:PHE:CE1	1:C:78:PRO:HA	0.44	2.47	2	1
1:C:104:ILE:CD1	1:C:145:VAL:HG22	0.44	2.36	2	1
1:C:39:SER:C	1:C:40:VAL:HG23	0.44	2.33	3	2
1:A:184:ILE:HD12	1:A:184:ILE:O	0.44	2.12	4	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:C:88:ARG:HD2	1:C:133:LEU:HD22	0.44	1.88	4	1
1:E:54:ARG:HB2	1:F:68:LEU:HD23	0.44	1.88	4	1
1:D:47:HIS:O	1:D:47:HIS:CG	0.44	2.70	5	1
1:F:102:VAL:CG1	1:F:153:LEU:HD22	0.44	2.42	5	1
1:B:41:PHE:CD2	1:B:70:PHE:O	0.44	2.70	8	4
1:D:110:SER:HA	1:D:178:ILE:HD12	0.44	1.88	6	1
1:E:136:ILE:HG23	1:E:171:ARG:HG2	0.44	1.88	6	1
1:A:165:ARG:HG2	1:A:182:VAL:HG11	0.44	1.87	7	1
1:A:71:ARG:C	1:A:72:ILE:HG22	0.44	2.32	8	1
1:C:72:ILE:HB	1:C:73:PRO:CD	0.44	2.42	8	1
1:E:184:ILE:O	1:E:184:ILE:CG2	0.44	2.64	8	1
1:C:48:ARG:HD2	1:C:65:ALA:CA	0.44	2.42	9	1
1:E:50:ILE:CG2	1:E:62:THR:CB	0.44	2.92	9	1
1:C:106:LEU:CD2	1:C:168:LEU:HD13	0.44	2.42	10	1
1:C:51:PHE:CZ	1:C:70:PHE:CZ	0.44	3.05	11	1
1:F:50:ILE:CG1	1:F:117:LEU:CD1	0.44	2.95	11	1
1:A:160:VAL:HG23	1:A:184:ILE:CD1	0.44	2.42	12	1
1:B:107:ARG:HB3	1:B:184:ILE:HD13	0.44	1.88	12	1
1:D:52:PHE:CD1	1:D:53:ASN:N	0.44	2.85	12	1
1:D:91:SER:HB3	1:D:104:ILE:CB	0.44	2.43	13	1
1:E:102:VAL:HG11	1:E:150:ALA:CB	0.44	2.42	14	1
1:F:106:LEU:HD11	1:F:182:VAL:HG13	0.44	1.88	14	1
1:A:10:GLY:O	1:A:14:ALA:HB3	0.44	2.12	15	1
1:F:19:MET:O	1:F:22:ALA:HB3	0.44	2.12	15	1
1:C:36:VAL:O	1:C:39:SER:O	0.44	2.35	3	3
1:C:50:ILE:HD11	1:C:80:ILE:CG2	0.44	2.43	10	3
1:B:82:ASP:HB3	1:B:83:ILE:HD12	0.44	1.88	2	1
1:D:140:VAL:HG23	1:D:141:LEU:N	0.44	2.27	2	1
1:F:87:PRO:CG	1:F:109:LEU:HD12	0.44	2.42	2	1
1:F:117:LEU:HD23	1:F:118:PRO:N	0.44	2.28	2	1
1:E:62:THR:HB	1:E:117:LEU:HB3	0.44	1.90	5	1
1:A:184:ILE:HD11	1:A:186:GLU:CD	0.44	2.32	6	1
1:B:72:ILE:HB	1:B:73:PRO:CD	0.44	2.42	14	5
1:C:27:LEU:HD23	1:C:27:LEU:C	0.44	2.33	6	1
1:D:102:VAL:HG13	1:D:188:SER:OG	0.44	2.13	6	1
1:B:69:HIS:O	1:B:70:PHE:C	0.44	2.55	7	2
1:A:48:ARG:HD3	1:A:63:ILE:O	0.44	2.12	10	2
1:A:41:PHE:CD1	1:A:42:THR:N	0.44	2.85	9	1
1:D:43:VAL:HG23	1:D:66:GLU:CA	0.44	2.40	9	1
1:D:69:HIS:O	1:D:69:HIS:CG	0.44	2.71	9	1
1:D:104:ILE:HG21	1:D:145:VAL:CG1	0.44	2.43	11	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:F:71:ARG:C	1:F:72:ILE:HG22	0.44	2.32	11	1
1:B:18:GLY:O	1:B:22:ALA:HB2	0.44	2.11	13	1
1:D:93:PRO:CA	1:D:104:ILE:HG22	0.44	2.43	13	1
1:D:183:ALA:O	1:D:184:ILE:CG2	0.44	2.65	13	1
1:F:48:ARG:CB	1:F:63:ILE:CA	0.44	2.89	13	1
1:B:108:VAL:HG23	1:B:137:VAL:HG22	0.44	1.89	14	1
1:C:104:ILE:HG12	1:C:145:VAL:HG12	0.44	1.88	15	1
1:A:48:ARG:CD	1:A:64:LEU:O	0.44	2.65	8	3
1:A:50:ILE:CG2	1:A:62:THR:O	0.44	2.66	13	4
1:B:39:SER:C	1:B:40:VAL:HG13	0.44	2.33	4	9
1:B:144:VAL:HG23	1:B:145:VAL:N	0.44	2.27	10	2
1:B:155:THR:O	1:B:158:ALA:HB3	0.44	2.13	1	1
1:C:133:LEU:N	1:C:134:PRO:HD2	0.44	2.27	1	1
1:E:50:ILE:CG1	1:E:62:THR:OG1	0.44	2.65	2	2
1:F:104:ILE:HD11	1:F:145:VAL:CG2	0.44	2.42	1	1
1:A:117:LEU:O	1:A:121:TYR:CB	0.44	2.66	3	1
1:D:50:ILE:HD13	1:D:80:ILE:CG2	0.44	2.42	3	1
1:B:62:THR:C	1:B:117:LEU:HD23	0.44	2.33	5	1
1:B:104:ILE:O	1:B:141:LEU:HD11	0.44	2.12	7	2
1:D:111:ARG:N	1:D:178:ILE:HD12	0.44	2.28	5	1
1:F:50:ILE:CG2	1:F:62:THR:OG1	0.44	2.61	6	2
1:C:62:THR:N	1:C:117:LEU:HD13	0.44	2.25	7	1
1:E:58:VAL:HG21	1:F:45:GLY:HA2	0.44	1.89	7	1
1:C:94:THR:OG1	1:C:104:ILE:HD13	0.44	2.13	8	1
1:E:121:TYR:OH	1:E:126:LEU:HD23	0.44	2.12	8	1
1:A:124:LEU:O	1:A:128:TYR:CD1	0.44	2.71	9	1
1:D:45:GLY:O	1:D:66:GLU:CA	0.44	2.66	9	1
1:F:106:LEU:CB	1:F:141:LEU:HD11	0.44	2.43	9	1
1:A:141:LEU:O	1:A:145:VAL:HG13	0.44	2.11	10	1
1:B:164:ILE:HG22	1:B:168:LEU:CD1	0.44	2.43	10	1
1:D:90:ILE:HB	1:D:105:SER:CB	0.44	2.43	10	1
1:F:52:PHE:CD2	1:F:58:VAL:N	0.44	2.85	10	1
1:D:81:TYR:CD1	1:D:116:GLU:CB	0.44	3.00	11	1
1:D:119:SER:CB	1:D:128:TYR:CE2	0.44	3.00	11	1
1:B:94:THR:HG21	1:B:145:VAL:HG11	0.44	1.89	12	1
1:B:106:LEU:CD2	1:B:164:ILE:HD11	0.44	2.41	12	1
1:C:62:THR:O	1:C:117:LEU:CB	0.44	2.65	12	1
1:E:27:LEU:HD23	1:E:27:LEU:O	0.44	2.13	12	1
1:E:106:LEU:HD23	1:E:107:ARG:N	0.44	2.28	12	1
1:F:134:PRO:O	1:F:138:ASN:N	0.44	2.50	13	1
1:A:98:ASP:CG	1:A:150:ALA:HB2	0.44	2.33	14	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:C:94:THR:HG21	1:C:145:VAL:HG21	0.44	1.90	15	1
1:D:52:PHE:CZ	1:D:55:ILE:O	0.44	2.71	15	1
1:D:145:VAL:HG13	1:D:146:ALA:N	0.44	2.28	1	1
1:B:177:LEU:O	1:B:178:ILE:CG2	0.44	2.65	3	5
1:C:39:SER:C	1:C:40:VAL:HG13	0.44	2.33	11	8
1:F:52:PHE:CZ	1:F:57:GLY:O	0.44	2.71	2	1
1:A:62:THR:HA	1:A:117:LEU:CG	0.44	2.43	3	1
1:A:90:ILE:HB	1:A:105:SER:CB	0.44	2.43	3	1
1:C:130:GLU:O	1:C:134:PRO:CG	0.44	2.66	3	1
1:F:177:LEU:C	1:F:178:ILE:HG23	0.44	2.33	3	8
1:D:52:PHE:CE1	1:D:57:GLY:O	0.44	2.71	5	2
1:B:61:ASP:OD2	1:B:128:TYR:CE1	0.44	2.71	7	1
1:B:77:TYR:CD2	1:B:78:PRO:CD	0.44	3.00	7	1
1:E:71:ARG:C	1:E:73:PRO:HD3	0.44	2.33	15	2
1:F:141:LEU:C	1:F:141:LEU:HD23	0.44	2.33	10	2
1:A:50:ILE:CG2	1:A:62:THR:OG1	0.44	2.61	9	1
1:B:62:THR:CB	1:B:117:LEU:HB2	0.44	2.42	10	1
1:C:95:GLY:HA2	1:C:102:VAL:HG12	0.44	1.89	10	1
1:B:52:PHE:CE2	1:B:53:ASN:O	0.44	2.71	11	1
1:E:164:ILE:HG22	1:E:168:LEU:HD23	0.44	1.88	11	1
1:D:168:LEU:HD22	1:D:171:ARG:NE	0.44	2.28	12	1
1:C:137:VAL:HG23	1:C:138:ASN:N	0.44	2.28	13	2
1:A:27:LEU:HD21	1:F:25:LEU:HD22	0.44	1.89	15	1
1:A:92:SER:N	1:A:105:SER:CB	0.44	2.81	15	1
1:C:71:ARG:HG3	1:C:76:GLN:OE1	0.44	2.13	15	1
1:E:187:LEU:O	1:E:187:LEU:CD1	0.44	2.65	15	1
1:A:177:LEU:C	1:A:178:ILE:HG23	0.44	2.33	9	7
1:B:62:THR:CB	1:B:117:LEU:HB3	0.44	2.41	1	2
1:B:63:ILE:N	1:B:117:LEU:CB	0.44	2.81	1	1
1:B:124:LEU:C	1:B:124:LEU:HD23	0.44	2.33	1	1
1:F:145:VAL:HG13	1:F:146:ALA:N	0.44	2.28	1	2
1:A:62:THR:HA	1:A:117:LEU:HD12	0.44	1.90	2	1
1:C:136:ILE:HG23	1:C:171:ARG:HB3	0.44	1.89	4	2
1:E:58:VAL:HG12	1:E:59:GLN:N	0.44	2.27	2	1
1:E:124:LEU:O	1:E:125:GLY:C	0.44	2.56	2	1
1:B:124:LEU:O	1:B:124:LEU:HD23	0.44	2.12	3	1
1:B:140:VAL:CG2	1:B:164:ILE:HD12	0.44	2.42	3	1
1:D:137:VAL:CG1	1:D:138:ASN:N	0.44	2.80	3	2
1:F:46:GLY:O	1:F:47:HIS:CG	0.44	2.71	15	3
1:B:134:PRO:O	1:B:138:ASN:CB	0.44	2.66	13	2
1:C:62:THR:C	1:C:63:ILE:CG1	0.44	2.86	4	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:E:19:MET:O	1:E:22:ALA:HB3	0.44	2.12	11	2
1:E:63:ILE:H	1:E:117:LEU:CG	0.44	2.25	6	2
1:B:50:ILE:CG2	1:B:62:THR:HB	0.44	2.41	7	2
1:B:137:VAL:HG23	1:B:138:ASN:N	0.44	2.28	7	1
1:C:50:ILE:HD11	1:C:80:ILE:HG13	0.44	1.90	7	1
1:C:106:LEU:HB2	1:C:141:LEU:HD21	0.44	1.89	7	1
1:C:117:LEU:O	1:C:121:TYR:HB3	0.44	2.13	7	2
1:B:39:SER:C	1:B:40:VAL:HG23	0.44	2.33	9	2
1:C:52:PHE:CD2	1:C:57:GLY:O	0.44	2.71	9	1
1:E:40:VAL:CG1	1:E:42:THR:HG22	0.44	2.42	9	1
1:F:165:ARG:HG3	1:F:182:VAL:HG21	0.44	1.85	9	1
1:B:178:ILE:HD12	1:B:180:ASP:OD2	0.44	2.12	10	1
1:E:25:LEU:HA	1:F:27:LEU:HD11	0.44	1.90	12	1
1:D:126:LEU:N	1:D:126:LEU:HD12	0.44	2.26	14	1
1:E:124:LEU:HD13	1:E:124:LEU:C	0.44	2.31	1	1
1:C:64:LEU:CD1	1:C:70:PHE:CE2	0.44	3.00	2	1
1:C:132:VAL:HG11	1:C:175:PHE:CD1	0.44	2.47	2	1
1:E:81:TYR:CD2	1:E:82:ASP:N	0.44	2.86	3	1
1:F:121:TYR:CE2	1:F:122:GLN:CG	0.44	3.01	3	1
1:A:63:ILE:N	1:A:117:LEU:HG	0.44	2.27	5	1
1:B:129:GLU:CG	1:B:133:LEU:HD13	0.44	2.43	5	1
1:A:132:VAL:HG23	1:A:175:PHE:CZ	0.44	2.48	6	1
1:C:57:GLY:C	1:C:58:VAL:HG23	0.44	2.33	10	2
1:E:60:GLN:O	1:E:121:TYR:CD2	0.44	2.71	6	2
1:A:63:ILE:O	1:A:117:LEU:CG	0.44	2.65	7	2
1:D:126:LEU:O	1:D:128:TYR:N	0.44	2.51	8	1
1:D:149:ASN:O	1:D:153:LEU:HD12	0.44	2.12	8	1
1:D:39:SER:C	1:D:40:VAL:HG13	0.44	2.33	14	5
1:C:142:LYS:O	1:C:146:ALA:HB2	0.44	2.12	11	1
1:D:94:THR:HG21	1:D:145:VAL:HG21	0.44	1.88	11	1
1:D:168:LEU:HD13	1:D:168:LEU:C	0.44	2.32	12	1
1:E:121:TYR:CD2	1:E:122:GLN:N	0.44	2.86	13	1
1:F:52:PHE:CD2	1:F:59:GLN:HG3	0.44	2.48	14	1
1:A:64:LEU:O	1:A:65:ALA:O	0.44	2.36	15	1
1:A:82:ASP:O	1:A:83:ILE:HB	0.44	2.13	15	1
1:A:92:SER:OG	1:A:105:SER:OG	0.44	2.33	15	1
1:D:124:LEU:HD13	1:D:176:SER:H	0.44	1.72	15	1
1:F:64:LEU:CB	1:F:80:ILE:CB	0.44	2.96	15	1
1:F:164:ILE:HG23	1:F:165:ARG:N	0.44	2.28	15	1
1:B:153:LEU:HD21	1:B:188:SER:HB3	0.44	1.90	1	1
1:C:51:PHE:CD2	1:C:51:PHE:O	0.44	2.71	9	4

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:151:SER:O	1:B:154:ILE:HG22	0.44	2.12	2	1
1:C:51:PHE:O	1:C:51:PHE:CD1	0.44	2.71	6	4
1:A:155:THR:HB	1:A:158:ALA:HB3	0.44	1.90	3	1
1:B:55:ILE:HG23	1:B:56:GLY:N	0.44	2.28	6	2
1:D:102:VAL:CG1	1:D:150:ALA:HB2	0.44	2.43	5	1
1:E:160:VAL:HG12	1:E:164:ILE:HD11	0.44	1.90	5	1
1:C:61:ASP:CA	1:C:81:TYR:CD1	0.44	3.00	7	1
1:D:133:LEU:N	1:D:134:PRO:HD2	0.44	2.28	7	1
1:F:5:LEU:HA	1:F:8:LEU:HD12	0.44	1.90	7	1
1:F:41:PHE:CB	1:F:71:ARG:N	0.44	2.81	7	1
1:C:64:LEU:HD23	1:C:115:GLN:CA	0.44	2.43	8	1
1:E:121:TYR:CD1	1:E:122:GLN:N	0.44	2.86	8	2
1:F:102:VAL:HG11	1:F:150:ALA:CA	0.44	2.43	8	1
1:F:102:VAL:HB	1:F:153:LEU:HD13	0.44	1.88	8	1
1:E:59:GLN:CG	1:E:121:TYR:CD2	0.44	3.01	12	1
1:F:43:VAL:HG23	1:F:67:GLY:O	0.44	2.12	15	2
1:A:48:ARG:HB3	1:A:64:LEU:CA	0.44	2.43	15	1
1:A:172:ALA:CB	1:A:179:LEU:HB2	0.44	2.43	15	1
1:B:141:LEU:HD12	1:B:142:LYS:N	0.43	2.28	1	1
1:E:46:GLY:O	1:E:47:HIS:CG	0.43	2.71	9	8
1:E:49:ALA:C	1:E:50:ILE:CD1	0.43	2.83	3	5
1:E:104:ILE:O	1:E:141:LEU:HD11	0.43	2.13	1	1
1:C:43:VAL:CG2	1:C:67:GLY:N	0.43	2.81	2	1
1:B:83:ILE:HG22	1:B:84:ARG:N	0.43	2.28	14	2
1:F:98:ASP:HB3	1:F:99:LEU:HD23	0.43	1.90	3	1
1:C:106:LEU:CG	1:C:184:ILE:HG22	0.43	2.43	4	1
1:C:132:VAL:CG1	1:C:175:PHE:CE2	0.43	3.01	4	1
1:F:176:SER:OG	1:F:177:LEU:N	0.43	2.51	7	2
1:B:53:ASN:ND2	1:B:75:PHE:CE2	0.43	2.86	5	2
1:F:137:VAL:CG1	1:F:138:ASN:N	0.43	2.80	5	2
1:F:165:ARG:N	1:F:182:VAL:HG11	0.43	2.29	5	1
1:F:183:ALA:C	1:F:184:ILE:CG2	0.43	2.87	5	2
1:B:43:VAL:HB	1:B:65:ALA:N	0.43	2.28	6	1
1:E:43:VAL:HG13	1:E:44:GLU:N	0.43	2.28	6	1
1:A:48:ARG:O	1:A:80:ILE:CG2	0.43	2.65	8	3
1:E:62:THR:HG21	1:E:118:PRO:HA	0.43	1.90	7	1
1:A:63:ILE:O	1:A:117:LEU:HD23	0.43	2.13	8	1
1:C:62:THR:CG2	1:C:117:LEU:O	0.43	2.65	8	1
1:C:104:ILE:HG22	1:C:141:LEU:HD12	0.43	1.87	8	1
1:A:53:ASN:O	1:A:54:ARG:C	0.43	2.54	11	1
1:E:39:SER:C	1:E:40:VAL:HG13	0.43	2.34	12	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:E:106:LEU:H	1:E:141:LEU:HD12	0.43	1.73	12	1
1:E:59:GLN:O	1:E:79:ILE:HD13	0.43	2.13	15	1
1:E:130:GLU:O	1:E:134:PRO:CG	0.43	2.66	15	1
1:F:79:ILE:N	1:F:79:ILE:CD1	0.43	2.81	15	1
1:C:41:PHE:CD1	1:C:71:ARG:CB	0.43	3.01	1	1
1:C:52:PHE:CZ	1:C:53:ASN:O	0.43	2.70	11	3
1:D:126:LEU:HD23	1:D:126:LEU:O	0.43	2.13	1	1
1:F:52:PHE:CD1	1:F:53:ASN:N	0.43	2.86	1	3
1:F:61:ASP:CB	1:F:128:TYR:CD2	0.43	3.01	1	1
1:A:133:LEU:N	1:A:134:PRO:HD2	0.43	2.28	7	2
1:D:154:ILE:HD12	1:D:155:THR:N	0.43	2.27	2	1
1:E:13:PRO:O	1:E:15:GLY:N	0.43	2.51	2	1
1:A:62:THR:HG22	1:A:121:TYR:HB2	0.43	1.89	3	1
1:C:52:PHE:CD1	1:C:77:TYR:HB2	0.43	2.49	5	1
1:C:58:VAL:O	1:C:121:TYR:CE1	0.43	2.71	10	2
1:B:115:GLN:CG	1:B:178:ILE:HD13	0.43	2.43	6	1
1:F:50:ILE:CD1	1:F:80:ILE:HG22	0.43	2.43	6	2
1:F:137:VAL:HG23	1:F:138:ASN:N	0.43	2.28	6	2
1:F:88:ARG:HG3	1:F:133:LEU:HD23	0.43	1.89	7	1
1:C:101:MET:C	1:C:102:VAL:HG23	0.43	2.33	8	1
1:A:68:LEU:O	1:A:68:LEU:CG	0.43	2.65	9	1
1:B:55:ILE:HG22	1:B:56:GLY:N	0.43	2.28	9	1
1:C:50:ILE:CG2	1:C:117:LEU:HD11	0.43	2.43	9	2
1:E:141:LEU:HD23	1:E:141:LEU:C	0.43	2.34	9	1
1:E:154:ILE:HG22	1:E:189:PHE:CE1	0.43	2.48	9	1
1:F:39:SER:C	1:F:40:VAL:HG13	0.43	2.34	9	2
1:A:106:LEU:HB2	1:A:184:ILE:HD12	0.43	1.90	11	1
1:B:144:VAL:HG22	1:B:148:PHE:HD1	0.43	1.71	11	1
1:D:102:VAL:CG1	1:D:104:ILE:CD1	0.43	2.96	11	1
1:D:118:PRO:O	1:D:121:TYR:CB	0.43	2.66	11	1
1:F:63:ILE:H	1:F:117:LEU:HB3	0.43	1.73	12	1
1:A:41:PHE:CB	1:A:71:ARG:CA	0.43	2.96	15	1
1:A:165:ARG:O	1:A:169:THR:HG22	0.43	2.12	15	1
1:E:177:LEU:C	1:E:178:ILE:HG23	0.43	2.33	9	5
1:F:136:ILE:HG23	1:F:137:VAL:N	0.43	2.28	2	1
1:A:90:ILE:CG2	1:A:184:ILE:CB	0.43	2.97	3	1
1:B:165:ARG:HB2	1:B:182:VAL:HG11	0.43	1.90	3	2
1:F:48:ARG:CG	1:F:63:ILE:CB	0.43	2.96	3	1
1:A:71:ARG:HG2	1:A:73:PRO:HD3	0.43	1.89	4	1
1:A:90:ILE:HD11	1:A:137:VAL:CG1	0.43	2.43	4	1
1:C:187:LEU:HD12	1:C:187:LEU:O	0.43	2.13	4	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:C:63:ILE:CG2	1:C:81:TYR:HB3	0.43	2.44	5	1
1:D:54:ARG:C	1:D:55:ILE:HG23	0.43	2.33	5	1
1:A:99:LEU:HD23	1:A:99:LEU:O	0.43	2.14	6	1
1:C:48:ARG:HA	1:C:64:LEU:O	0.43	2.13	6	2
1:A:43:VAL:HB	1:A:65:ALA:CA	0.43	2.42	9	1
1:E:55:ILE:HG13	1:F:68:LEU:HD22	0.43	1.90	9	1
1:E:78:PRO:C	1:E:79:ILE:HD12	0.43	2.32	9	1
1:C:43:VAL:CB	1:C:67:GLY:O	0.43	2.66	11	1
1:C:51:PHE:CE2	1:C:70:PHE:CZ	0.43	3.06	11	1
1:D:124:LEU:O	1:D:175:PHE:CD1	0.43	2.71	11	1
1:C:58:VAL:O	1:C:59:GLN:CB	0.43	2.66	12	1
1:F:90:ILE:HD11	1:F:137:VAL:HG21	0.43	1.85	12	1
1:C:52:PHE:CE2	1:C:57:GLY:O	0.43	2.72	13	1
1:E:184:ILE:HG22	1:E:186:GLU:HG2	0.43	1.90	14	1
1:F:154:ILE:CG2	1:F:189:PHE:CE1	0.43	3.01	14	1
1:F:184:ILE:HG22	1:F:186:GLU:HG2	0.43	1.90	15	1
1:A:62:THR:OG1	1:A:117:LEU:HB3	0.43	2.13	1	1
1:E:83:ILE:HD13	1:E:112:PRO:HA	0.43	1.91	1	1
1:B:12:LEU:N	1:B:13:PRO:HD2	0.43	2.28	6	12
1:E:63:ILE:HD11	1:E:112:PRO:CB	0.43	2.43	2	1
1:F:50:ILE:CD1	1:F:80:ILE:HG23	0.43	2.43	12	2
1:F:171:ARG:NH2	1:F:179:LEU:HD11	0.43	2.29	2	1
1:B:124:LEU:HD12	1:B:176:SER:CB	0.43	2.40	4	1
1:E:58:VAL:HG21	1:F:46:GLY:CA	0.43	2.44	4	1
1:F:52:PHE:CD1	1:F:77:TYR:HB3	0.43	2.49	4	1
1:F:62:THR:O	1:F:81:TYR:HB3	0.43	2.14	7	2
1:B:129:GLU:O	1:B:133:LEU:HB2	0.43	2.13	14	2
1:F:41:PHE:HB2	1:F:70:PHE:HB3	0.43	1.90	8	1
1:F:116:GLU:O	1:F:120:MET:CB	0.43	2.66	8	1
1:C:43:VAL:HB	1:C:67:GLY:N	0.43	2.29	10	1
1:A:51:PHE:CD1	1:A:51:PHE:O	0.43	2.71	11	1
1:A:78:PRO:O	1:A:79:ILE:HG12	0.43	2.13	11	1
1:A:132:VAL:HG22	1:A:175:PHE:CE1	0.43	2.49	11	1
1:F:117:LEU:HG	1:F:118:PRO:N	0.43	2.28	11	1
1:D:41:PHE:CD1	1:D:41:PHE:N	0.43	2.86	12	1
1:E:53:ASN:OD1	1:E:55:ILE:HG22	0.43	2.14	12	1
1:D:125:GLY:C	1:D:126:LEU:HD12	0.43	2.34	14	1
1:F:49:ALA:HA	1:F:64:LEU:HB2	0.43	1.90	14	1
1:C:42:THR:HG23	1:C:69:HIS:O	0.43	2.14	15	1
1:A:39:SER:C	1:A:40:VAL:HG13	0.43	2.34	4	8
1:B:52:PHE:CD1	1:B:57:GLY:O	0.43	2.72	1	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:C:52:PHE:CE2	1:C:53:ASN:O	0.43	2.71	1	4
1:D:177:LEU:C	1:D:178:ILE:HG23	0.43	2.34	12	7
1:D:128:TYR:O	1:D:128:TYR:CG	0.43	2.71	2	1
1:E:106:LEU:CA	1:E:184:ILE:HG22	0.43	2.44	2	1
1:D:183:ALA:C	1:D:184:ILE:HG23	0.43	2.34	3	3
1:F:52:PHE:CE2	1:F:121:TYR:OH	0.43	2.69	3	1
1:F:87:PRO:O	1:F:88:ARG:HG2	0.43	2.14	3	1
1:B:153:LEU:CD2	1:B:160:VAL:HG21	0.43	2.42	4	1
1:A:136:ILE:HD11	1:A:175:PHE:CE1	0.43	2.49	5	1
1:D:57:GLY:C	1:D:58:VAL:HG23	0.43	2.34	5	1
1:D:109:LEU:HB3	1:D:182:VAL:HG22	0.43	1.90	5	1
1:F:52:PHE:CD2	1:F:57:GLY:O	0.43	2.72	5	1
1:C:103:ASN:N	1:C:103:ASN:OD1	0.43	2.51	6	1
1:E:60:GLN:O	1:E:62:THR:HG22	0.43	2.14	6	1
1:B:106:LEU:CD1	1:B:168:LEU:HD13	0.43	2.44	7	1
1:C:61:ASP:O	1:C:81:TYR:CG	0.43	2.71	7	1
1:C:184:ILE:HD12	1:C:184:ILE:C	0.43	2.33	7	1
1:E:50:ILE:CG2	1:E:62:THR:OG1	0.43	2.66	12	2
1:A:64:LEU:HD23	1:A:64:LEU:C	0.43	2.34	9	1
1:B:189:PHE:CZ	1:C:187:LEU:CD2	0.43	3.01	9	1
1:C:50:ILE:HG23	1:C:117:LEU:HD11	0.43	1.90	9	1
1:C:15:GLY:N	1:C:16:PRO:CD	0.43	2.81	10	1
1:A:52:PHE:CD1	1:A:57:GLY:O	0.43	2.72	11	1
1:D:81:TYR:CD1	1:D:116:GLU:HB3	0.43	2.48	11	1
1:B:144:VAL:HG13	1:B:145:VAL:N	0.43	2.28	12	2
1:B:189:PHE:CZ	1:C:154:ILE:HD11	0.43	2.48	12	1
1:E:88:ARG:HG2	1:E:133:LEU:HD13	0.43	1.90	13	1
1:A:185:THR:HG22	1:F:91:SER:O	0.43	2.13	14	1
1:B:53:ASN:OD1	1:B:55:ILE:HB	0.43	2.13	14	1
1:B:63:ILE:CB	1:B:81:TYR:O	0.43	2.67	14	1
1:B:57:GLY:N	1:C:66:GLU:CB	0.43	2.82	15	1
1:B:126:LEU:HD21	1:C:46:GLY:HA3	0.43	1.90	15	1
1:C:105:SER:HA	1:C:141:LEU:HD11	0.43	1.89	15	1
1:D:114:ALA:CB	1:D:178:ILE:HG21	0.43	2.43	15	1
1:C:175:PHE:CE2	1:C:176:SER:OG	0.43	2.72	2	1
1:F:134:PRO:O	1:F:138:ASN:CB	0.43	2.66	2	1
1:A:94:THR:CB	1:A:104:ILE:HG22	0.43	2.44	3	1
1:C:52:PHE:CD2	1:C:77:TYR:CB	0.43	3.02	3	1
1:B:43:VAL:CG1	1:B:64:LEU:CG	0.43	2.96	4	2
1:F:49:ALA:C	1:F:50:ILE:CD1	0.43	2.81	4	1
1:B:41:PHE:CG	1:B:71:ARG:HB2	0.43	2.48	5	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:E:144:VAL:HG23	1:E:145:VAL:N	0.43	2.29	5	1
1:C:63:ILE:N	1:C:117:LEU:HB3	0.43	2.29	6	1
1:F:49:ALA:O	1:F:64:LEU:CB	0.43	2.66	6	2
1:C:106:LEU:HA	1:C:184:ILE:CG2	0.43	2.44	8	3
1:E:62:THR:HG22	1:E:118:PRO:N	0.43	2.28	7	1
1:C:63:ILE:H	1:C:117:LEU:HB2	0.43	1.70	8	1
1:C:145:VAL:HG13	1:C:146:ALA:N	0.43	2.28	9	1
1:D:120:MET:O	1:D:124:LEU:CB	0.43	2.66	9	2
1:F:104:ILE:CD1	1:F:142:LYS:CG	0.43	2.96	9	1
1:C:64:LEU:CB	1:C:80:ILE:CB	0.43	2.96	10	2
1:E:111:ARG:HB2	1:E:179:LEU:HD12	0.43	1.90	10	2
1:B:106:LEU:N	1:B:184:ILE:HG12	0.43	2.28	12	1
1:E:43:VAL:HG22	1:E:44:GLU:N	0.43	2.29	12	1
1:C:62:THR:O	1:C:81:TYR:HB3	0.43	2.14	13	1
1:B:52:PHE:CE2	1:B:58:VAL:CG2	0.43	3.01	14	1
1:F:41:PHE:CB	1:F:71:ARG:HB3	0.43	2.44	14	1
1:B:41:PHE:HB2	1:B:70:PHE:HB3	0.43	1.90	1	3
1:A:48:ARG:HB3	1:A:63:ILE:C	0.43	2.31	2	1
1:A:172:ALA:O	1:A:175:PHE:CE1	0.43	2.72	9	2
1:C:134:PRO:O	1:C:138:ASN:CB	0.43	2.67	2	4
1:F:43:VAL:CG2	1:F:49:ALA:HB2	0.43	2.44	2	1
1:A:48:ARG:HA	1:A:64:LEU:O	0.43	2.14	3	2
1:B:120:MET:SD	1:B:124:LEU:HD12	0.43	2.53	3	1
1:E:94:THR:N	1:E:102:VAL:O	0.43	2.52	3	1
1:D:50:ILE:HG12	1:D:79:ILE:O	0.43	2.14	4	2
1:E:41:PHE:CE2	1:E:42:THR:HG23	0.43	2.49	4	1
1:B:72:ILE:O	1:B:76:GLN:CB	0.43	2.67	5	1
1:C:61:ASP:CA	1:C:81:TYR:HB2	0.43	2.44	10	2
1:C:120:MET:HB3	1:C:124:LEU:HD13	0.43	1.91	5	1
1:D:15:GLY:N	1:D:16:PRO:CD	0.43	2.82	5	1
1:B:59:GLN:HB3	1:B:62:THR:HG21	0.43	1.91	7	1
1:D:50:ILE:CG1	1:D:117:LEU:CD1	0.43	2.97	7	1
1:F:129:GLU:O	1:F:133:LEU:HB2	0.43	2.13	8	2
1:C:93:PRO:CG	1:D:157:ARG:CG	0.43	2.97	9	1
1:D:88:ARG:HG3	1:D:133:LEU:HD13	0.43	1.89	10	1
1:D:136:ILE:HG23	1:D:171:ARG:HB3	0.43	1.90	10	1
1:C:98:ASP:CB	1:C:150:ALA:HB3	0.43	2.44	11	1
1:F:51:PHE:CD1	1:F:51:PHE:O	0.43	2.71	11	1
1:F:60:GLN:O	1:F:61:ASP:O	0.43	2.36	11	1
1:E:61:ASP:C	1:E:62:THR:HG22	0.43	2.34	12	1
1:F:108:VAL:HG13	1:F:180:ASP:OD2	0.43	2.13	12	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:125:GLY:O	1:B:127:ASP:N	0.43	2.52	13	1
1:B:108:VAL:HG21	1:B:136:ILE:CG2	0.43	2.42	14	1
1:F:121:TYR:CD2	1:F:121:TYR:C	0.43	2.92	15	3
1:A:50:ILE:HD11	1:A:62:THR:O	0.43	2.14	2	3
1:B:51:PHE:CE2	1:B:53:ASN:OD1	0.43	2.72	2	1
1:C:172:ALA:O	1:C:175:PHE:CE2	0.43	2.72	2	1
1:E:47:HIS:CE1	1:E:82:ASP:OD2	0.43	2.72	2	1
1:A:53:ASN:O	1:A:55:ILE:N	0.43	2.52	3	1
1:E:144:VAL:HG11	1:E:164:ILE:HD11	0.43	1.91	3	1
1:F:107:ARG:C	1:F:108:VAL:HG23	0.43	2.33	3	1
1:D:52:PHE:CZ	1:D:53:ASN:O	0.43	2.72	5	4
1:C:108:VAL:HG21	1:C:137:VAL:HG21	0.43	1.89	5	2
1:D:104:ILE:CG1	1:D:153:LEU:HD11	0.43	2.43	5	1
1:A:52:PHE:CZ	1:A:57:GLY:O	0.43	2.71	6	1
1:B:60:GLN:O	1:B:121:TYR:CD1	0.43	2.71	6	1
1:B:161:SER:HA	1:B:164:ILE:HD12	0.43	1.89	8	1
1:D:49:ALA:C	1:D:50:ILE:CD1	0.43	2.85	8	1
1:D:52:PHE:CD1	1:D:57:GLY:O	0.43	2.71	8	1
1:F:189:PHE:CD1	1:F:189:PHE:N	0.43	2.87	8	1
1:B:63:ILE:CG1	1:B:117:LEU:HD13	0.43	2.43	9	1
1:F:70:PHE:CB	1:F:72:ILE:CD1	0.43	2.97	9	1
1:B:49:ALA:HA	1:B:64:LEU:HD12	0.43	1.90	15	2
1:C:109:LEU:CB	1:C:182:VAL:CG2	0.43	2.96	10	1
1:B:57:GLY:C	1:B:58:VAL:HG13	0.43	2.34	15	4
1:D:82:ASP:O	1:D:83:ILE:HB	0.43	2.14	11	1
1:E:144:VAL:HG13	1:E:145:VAL:N	0.43	2.28	11	1
1:F:49:ALA:CB	1:F:64:LEU:CD1	0.43	2.88	14	2
1:A:43:VAL:HG21	1:A:47:HIS:O	0.43	2.14	15	1
1:C:12:LEU:CB	1:C:13:PRO:HD3	0.43	2.44	15	1
1:A:52:PHE:CE1	1:A:79:ILE:HD12	0.43	2.49	1	1
1:B:49:ALA:C	1:B:50:ILE:CD1	0.43	2.85	1	1
1:F:168:LEU:HD23	1:F:182:VAL:HG22	0.43	1.90	1	1
1:A:106:LEU:CB	1:A:184:ILE:CG2	0.43	2.96	2	1
1:B:58:VAL:HG22	1:B:59:GLN:N	0.43	2.28	2	2
1:A:46:GLY:O	1:A:47:HIS:CG	0.43	2.72	3	4
1:D:71:ARG:O	1:D:72:ILE:HB	0.43	2.14	3	1
1:A:63:ILE:O	1:A:117:LEU:HG	0.43	2.14	5	1
1:C:102:VAL:HG13	1:C:145:VAL:HG13	0.43	1.90	5	1
1:F:50:ILE:HD12	1:F:63:ILE:HA	0.43	1.89	9	3
1:C:64:LEU:CD1	1:C:118:PRO:CD	0.43	2.96	7	1
1:C:62:THR:HA	1:C:117:LEU:CG	0.43	2.43	8	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:F:144:VAL:HG11	1:F:164:ILE:HG12	0.43	1.91	9	1
1:E:64:LEU:HD12	1:E:115:GLN:C	0.43	2.35	10	1
1:A:102:VAL:HG13	1:A:145:VAL:HG23	0.43	1.91	11	1
1:D:118:PRO:HA	1:D:121:TYR:HB2	0.43	1.90	11	1
1:F:50:ILE:CG2	1:F:59:GLN:CG	0.43	2.97	11	2
1:B:109:LEU:HB2	1:B:182:VAL:HG11	0.43	1.91	12	1
1:D:52:PHE:CE2	1:D:77:TYR:CB	0.43	3.02	12	1
1:D:101:MET:HB2	1:D:150:ALA:HB2	0.43	1.89	13	1
1:E:50:ILE:CG2	1:E:59:GLN:HG3	0.43	2.43	13	1
1:E:90:ILE:C	1:E:105:SER:HB2	0.43	2.33	13	1
1:B:112:PRO:O	1:B:114:ALA:N	0.43	2.52	15	1
1:A:153:LEU:HD23	1:A:188:SER:OG	0.43	2.13	2	1
1:C:12:LEU:N	1:C:13:PRO:HD2	0.43	2.29	2	6
1:F:78:PRO:O	1:F:79:ILE:CG1	0.43	2.66	2	1
1:F:101:MET:O	1:F:189:PHE:CE1	0.43	2.71	2	1
1:B:124:LEU:C	1:B:124:LEU:CD2	0.43	2.87	3	1
1:C:52:PHE:CD1	1:C:53:ASN:N	0.43	2.87	3	1
1:C:115:GLN:NE2	1:C:117:LEU:HD22	0.43	2.28	3	1
1:D:124:LEU:O	1:D:125:GLY:O	0.43	2.36	3	1
1:F:140:VAL:HG13	1:F:141:LEU:N	0.43	2.29	4	1
1:A:103:ASN:OD1	1:A:103:ASN:N	0.43	2.52	11	2
1:D:41:PHE:CZ	1:D:72:ILE:CD1	0.43	3.00	5	1
1:D:102:VAL:CG2	1:D:150:ALA:CB	0.43	2.95	6	2
1:F:57:GLY:C	1:F:58:VAL:HG23	0.43	2.34	6	1
1:B:43:VAL:HG12	1:B:66:GLU:N	0.43	2.29	9	3
1:C:124:LEU:O	1:C:128:TYR:CG	0.43	2.72	8	1
1:E:152:GLN:O	1:E:156:GLN:N	0.43	2.49	8	1
1:F:52:PHE:CD1	1:F:77:TYR:HB2	0.43	2.49	8	1
1:A:68:LEU:O	1:A:68:LEU:CD1	0.43	2.67	9	1
1:C:48:ARG:CG	1:C:63:ILE:CB	0.43	2.97	9	1
1:A:116:GLU:HB3	1:A:118:PRO:HD2	0.43	1.91	11	1
1:A:136:ILE:HG23	1:A:137:VAL:HG23	0.43	1.90	11	2
1:E:145:VAL:HG13	1:E:146:ALA:N	0.43	2.29	11	1
1:C:50:ILE:HG12	1:C:117:LEU:HD11	0.43	1.90	12	1
1:F:153:LEU:HG	1:F:160:VAL:HG21	0.43	1.90	14	1
1:F:189:PHE:CD2	1:F:189:PHE:N	0.43	2.86	14	1
1:A:121:TYR:CA	1:A:124:LEU:HD23	0.43	2.43	15	1
1:B:109:LEU:HD22	1:B:181:ASP:O	0.43	2.14	15	1
1:B:120:MET:CE	1:B:124:LEU:HD13	0.43	2.44	15	1
1:E:102:VAL:HG23	1:E:104:ILE:CD1	0.43	2.44	15	1
1:F:120:MET:O	1:F:124:LEU:CB	0.43	2.67	15	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:69:HIS:CD2	1:B:72:ILE:HD12	0.42	2.48	1	1
1:C:48:ARG:O	1:C:80:ILE:CG2	0.42	2.67	1	2
1:C:133:LEU:N	1:C:134:PRO:CD	0.42	2.82	1	1
1:D:51:PHE:O	1:D:51:PHE:CD1	0.42	2.72	8	3
1:E:128:TYR:CG	1:E:129:GLU:N	0.42	2.87	12	3
1:A:41:PHE:CD2	1:A:70:PHE:O	0.42	2.72	2	1
1:B:144:VAL:O	1:B:148:PHE:CD1	0.42	2.72	2	1
1:C:180:ASP:OD1	1:C:181:ASP:N	0.42	2.52	2	1
1:D:140:VAL:CG2	1:D:168:LEU:HD11	0.42	2.43	2	1
1:D:156:GLN:O	1:D:158:ALA:N	0.42	2.51	2	1
1:B:61:ASP:O	1:B:62:THR:CG2	0.42	2.67	3	1
1:C:74:TRP:O	1:C:75:PHE:CD1	0.42	2.72	3	1
1:D:104:ILE:CG2	1:D:104:ILE:O	0.42	2.67	3	1
1:D:132:VAL:CG2	1:D:175:PHE:CE2	0.42	3.02	3	1
1:B:128:TYR:O	1:B:128:TYR:CD2	0.42	2.71	4	1
1:B:52:PHE:CE2	1:B:57:GLY:O	0.42	2.72	6	3
1:F:51:PHE:O	1:F:51:PHE:CD2	0.42	2.72	14	5
1:F:81:TYR:CE2	1:F:82:ASP:O	0.42	2.72	10	2
1:A:129:GLU:O	1:A:133:LEU:HB2	0.42	2.14	6	1
1:B:63:ILE:HG22	1:B:81:TYR:C	0.42	2.34	6	1
1:E:42:THR:O	1:E:43:VAL:C	0.42	2.55	6	1
1:E:70:PHE:CE1	1:E:80:ILE:HD11	0.42	2.49	6	1
1:E:106:LEU:CD1	1:E:184:ILE:HD12	0.42	2.44	6	1
1:A:157:ARG:HB2	1:A:186:GLU:CG	0.42	2.43	7	1
1:C:77:TYR:CG	1:C:78:PRO:CD	0.42	3.02	8	1
1:E:73:PRO:HG2	1:E:76:GLN:CB	0.42	2.44	8	1
1:A:57:GLY:C	1:A:58:VAL:HG13	0.42	2.35	13	2
1:A:172:ALA:O	1:A:175:PHE:CD1	0.42	2.72	9	1
1:B:64:LEU:HB3	1:B:80:ILE:HB	0.42	1.91	10	1
1:A:52:PHE:CE1	1:A:53:ASN:O	0.42	2.72	12	3
1:A:71:ARG:O	1:A:72:ILE:O	0.42	2.37	12	1
1:A:41:PHE:CB	1:A:71:ARG:HB2	0.42	2.44	13	1
1:F:47:HIS:N	1:F:65:ALA:O	0.42	2.44	14	1
1:F:65:ALA:O	1:F:66:GLU:CB	0.42	2.67	14	1
1:A:93:PRO:HB3	1:A:188:SER:HA	0.42	1.90	15	1
1:A:114:ALA:HB3	1:A:116:GLU:OE1	0.42	2.14	15	1
1:D:54:ARG:O	1:D:55:ILE:O	0.42	2.37	2	1
1:C:48:ARG:HD2	1:C:48:ARG:N	0.42	2.28	3	1
1:F:62:THR:O	1:F:63:ILE:CG2	0.42	2.67	3	1
1:C:141:LEU:O	1:C:145:VAL:HG13	0.42	2.14	4	1
1:F:136:ILE:O	1:F:140:VAL:HG12	0.42	2.14	4	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:27:LEU:HD11	1:F:24:LYS:C	0.42	2.33	5	1
1:B:129:GLU:CG	1:B:133:LEU:HD22	0.42	2.44	5	1
1:A:111:ARG:O	1:A:178:ILE:HD13	0.42	2.14	6	1
1:A:51:PHE:O	1:A:51:PHE:CD2	0.42	2.73	8	2
1:C:102:VAL:HG12	1:C:104:ILE:HD11	0.42	1.90	8	1
1:C:58:VAL:HG22	1:C:59:GLN:N	0.42	2.28	9	1
1:A:126:LEU:HD21	1:B:46:GLY:HA3	0.42	1.90	10	1
1:B:58:VAL:HG12	1:B:59:GLN:N	0.42	2.29	10	1
1:C:50:ILE:HD12	1:C:63:ILE:O	0.42	2.12	10	1
1:B:105:SER:HB3	1:B:184:ILE:HD13	0.42	1.91	11	1
1:D:161:SER:O	1:D:165:ARG:CB	0.42	2.68	11	1
1:A:71:ARG:O	1:A:76:GLN:NE2	0.42	2.52	12	1
1:C:132:VAL:CG2	1:C:175:PHE:CE1	0.42	2.99	12	1
1:D:71:ARG:C	1:D:73:PRO:HD3	0.42	2.34	12	1
1:E:41:PHE:CZ	1:E:71:ARG:NH2	0.42	2.88	13	1
1:A:92:SER:OG	1:A:92:SER:O	0.42	2.36	15	1
1:C:60:GLN:O	1:C:121:TYR:CE2	0.42	2.72	15	1
1:E:189:PHE:O	1:E:189:PHE:CD2	0.42	2.72	15	1
1:F:63:ILE:O	1:F:80:ILE:HB	0.42	2.14	15	1
1:D:12:LEU:N	1:D:13:PRO:HD2	0.42	2.29	13	4
1:F:104:ILE:CD1	1:F:145:VAL:CG2	0.42	2.97	1	1
1:C:175:PHE:CZ	1:C:176:SER:OG	0.42	2.72	2	1
1:B:102:VAL:HG21	1:B:153:LEU:HD13	0.42	1.89	3	1
1:B:106:LEU:CB	1:B:141:LEU:HD11	0.42	2.44	3	1
1:F:62:THR:HB	1:F:117:LEU:HB2	0.42	1.91	11	2
1:B:43:VAL:CG1	1:B:64:LEU:HG	0.42	2.44	4	2
1:B:48:ARG:C	1:B:64:LEU:HA	0.42	2.34	4	2
1:A:51:PHE:CD1	1:A:76:GLN:NE2	0.42	2.87	5	1
1:E:58:VAL:HG13	1:E:121:TYR:OH	0.42	2.13	8	1
1:C:50:ILE:CG1	1:C:117:LEU:CD1	0.42	2.97	9	2
1:E:50:ILE:HD11	1:E:80:ILE:CA	0.42	2.45	14	2
1:E:126:LEU:HD12	1:E:127:ASP:OD2	0.42	2.15	9	1
1:D:73:PRO:O	1:D:74:TRP:CG	0.42	2.72	10	1
1:E:60:GLN:O	1:E:121:TYR:CE2	0.42	2.72	10	1
1:E:111:ARG:CB	1:E:179:LEU:HD12	0.42	2.45	10	1
1:A:70:PHE:CD1	1:A:70:PHE:N	0.42	2.87	11	1
1:C:120:MET:HE1	1:C:124:LEU:HD13	0.42	1.91	11	1
1:D:90:ILE:O	1:D:90:ILE:CD1	0.42	2.66	11	1
1:E:133:LEU:O	1:E:137:VAL:CG2	0.42	2.67	12	1
1:B:8:LEU:O	1:B:12:LEU:HD12	0.42	2.15	13	1
1:B:45:GLY:O	1:B:66:GLU:CG	0.42	2.67	13	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:D:136:ILE:HG13	1:D:137:VAL:N	0.42	2.29	13	1
1:F:104:ILE:CD1	1:F:145:VAL:HG21	0.42	2.43	13	1
1:A:58:VAL:HG22	1:A:121:TYR:HE2	0.42	1.73	14	1
1:C:81:TYR:CD1	1:C:82:ASP:N	0.42	2.88	14	1
1:F:45:GLY:HA3	1:F:65:ALA:HB1	0.42	1.92	14	1
1:B:106:LEU:HD21	1:B:140:VAL:CG2	0.42	2.44	15	1
1:C:61:ASP:OD1	1:C:81:TYR:CD2	0.42	2.72	15	1
1:D:132:VAL:O	1:D:136:ILE:HD12	0.42	2.13	15	1
1:F:106:LEU:HD11	1:F:137:VAL:HG11	0.42	1.90	15	1
1:B:145:VAL:HG13	1:B:146:ALA:N	0.42	2.29	1	1
1:C:94:THR:N	1:C:102:VAL:O	0.42	2.53	1	2
1:D:43:VAL:HG22	1:D:44:GLU:N	0.42	2.30	1	1
1:F:68:LEU:HD23	1:F:68:LEU:C	0.42	2.34	13	2
1:B:52:PHE:CE1	1:B:121:TYR:CE2	0.42	3.08	3	1
1:D:137:VAL:HG13	1:D:138:ASN:N	0.42	2.30	3	1
1:A:144:VAL:HG13	1:A:145:VAL:N	0.42	2.29	4	1
1:B:43:VAL:HB	1:B:65:ALA:HA	0.42	1.91	4	2
1:C:176:SER:OG	1:C:177:LEU:N	0.42	2.53	4	1
1:D:52:PHE:CE1	1:D:55:ILE:HG13	0.42	2.49	5	1
1:E:106:LEU:C	1:E:106:LEU:HD12	0.42	2.35	5	1
1:B:59:GLN:HA	1:B:121:TYR:CZ	0.42	2.50	6	1
1:D:153:LEU:HD21	1:D:160:VAL:HG21	0.42	1.92	6	1
1:E:50:ILE:CG1	1:E:62:THR:O	0.42	2.67	6	1
1:B:77:TYR:CG	1:B:78:PRO:CD	0.42	3.02	7	1
1:D:51:PHE:O	1:D:51:PHE:CD2	0.42	2.72	9	2
1:C:168:LEU:HD13	1:C:182:VAL:HG13	0.42	1.90	8	1
1:E:154:ILE:CG1	1:E:189:PHE:CE2	0.42	3.02	8	1
1:E:52:PHE:CE2	1:E:57:GLY:O	0.42	2.73	9	1
1:E:124:LEU:HD11	1:E:128:TYR:HB2	0.42	1.91	9	1
1:F:57:GLY:C	1:F:58:VAL:HG13	0.42	2.34	9	1
1:F:114:ALA:HB2	1:F:179:LEU:HD12	0.42	1.91	9	1
1:F:177:LEU:O	1:F:178:ILE:CG2	0.42	2.68	9	1
1:A:106:LEU:CD1	1:A:164:ILE:HG21	0.42	2.44	10	1
1:C:112:PRO:HB2	1:C:117:LEU:HD11	0.42	1.92	10	1
1:B:51:PHE:CZ	1:B:75:PHE:O	0.42	2.73	12	1
1:B:102:VAL:CG2	1:B:150:ALA:CB	0.42	2.98	13	1
1:B:102:VAL:CG2	1:B:150:ALA:HB1	0.42	2.44	13	1
1:E:110:SER:OG	1:E:177:LEU:HD21	0.42	2.14	13	1
1:F:4:ASN:O	1:F:8:LEU:HD13	0.42	2.14	13	1
1:F:124:LEU:HD12	1:F:175:PHE:CD2	0.42	2.48	13	1
1:A:160:VAL:O	1:A:164:ILE:HD12	0.42	2.14	14	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:F:61:ASP:O	1:F:62:THR:OG1	0.42	2.34	14	1
1:F:77:TYR:CD1	1:F:79:ILE:CD1	0.42	3.03	14	1
1:F:90:ILE:HB	1:F:105:SER:CB	0.42	2.44	14	1
1:A:72:ILE:HD11	1:A:77:TYR:C	0.42	2.34	15	1
1:A:72:ILE:HB	1:A:73:PRO:HD2	0.42	1.90	15	1
1:A:128:TYR:CG	1:A:129:GLU:N	0.42	2.86	15	1
1:C:102:VAL:HG11	1:C:150:ALA:HB2	0.42	1.90	15	1
1:D:52:PHE:CE2	1:D:58:VAL:O	0.42	2.73	15	1
1:E:102:VAL:HG23	1:E:104:ILE:HD11	0.42	1.91	15	1
1:F:49:ALA:HA	1:F:64:LEU:HD12	0.42	1.91	15	1
1:B:52:PHE:CE1	1:B:55:ILE:O	0.42	2.73	1	1
1:E:132:VAL:HG12	1:E:136:ILE:CD1	0.42	2.44	1	1
1:A:177:LEU:O	1:A:178:ILE:HD12	0.42	2.15	2	1
1:B:50:ILE:HD11	1:B:62:THR:O	0.42	2.14	3	1
1:C:52:PHE:CD1	1:C:77:TYR:CB	0.42	3.02	5	1
1:C:52:PHE:CE1	1:C:57:GLY:O	0.42	2.73	6	1
1:C:51:PHE:C	1:C:52:PHE:CD1	0.42	2.93	7	1
1:E:68:LEU:O	1:E:69:HIS:CG	0.42	2.72	9	2
1:A:177:LEU:O	1:A:178:ILE:HD13	0.42	2.15	8	1
1:D:41:PHE:CD1	1:D:71:ARG:HA	0.42	2.49	8	1
1:D:101:MET:C	1:D:102:VAL:HG23	0.42	2.35	8	1
1:A:83:ILE:HG22	1:A:84:ARG:N	0.42	2.29	9	1
1:A:189:PHE:CE2	1:B:157:ARG:NH1	0.42	2.88	9	1
1:D:90:ILE:O	1:D:105:SER:HB2	0.42	2.14	10	1
1:E:50:ILE:CD1	1:E:80:ILE:HG23	0.42	2.45	10	1
1:E:13:PRO:O	1:E:14:ALA:HB3	0.42	2.14	11	1
1:C:159:GLN:HA	1:C:162:LEU:HD12	0.42	1.90	12	1
1:E:69:HIS:O	1:E:70:PHE:CB	0.42	2.66	12	1
1:A:106:LEU:HA	1:A:184:ILE:CG2	0.42	2.44	13	1
1:B:165:ARG:O	1:B:169:THR:HG23	0.42	2.15	13	1
1:C:50:ILE:CG1	1:C:62:THR:O	0.42	2.68	14	1
1:E:50:ILE:CD1	1:E:80:ILE:HG22	0.42	2.44	14	1
1:E:50:ILE:HG12	1:E:80:ILE:HG22	0.42	1.91	14	1
1:B:41:PHE:CD1	1:B:71:ARG:HB3	0.42	2.49	15	1
1:B:120:MET:HE2	1:B:124:LEU:HD13	0.42	1.92	15	1
1:E:64:LEU:HD13	1:E:64:LEU:C	0.42	2.35	15	1
1:B:63:ILE:HG12	1:B:81:TYR:CD2	0.42	2.49	1	1
1:F:168:LEU:HD22	1:F:182:VAL:HG22	0.42	1.90	1	1
1:C:70:PHE:N	1:C:70:PHE:CD2	0.42	2.87	3	1
1:E:33:ALA:HA	1:E:36:VAL:HG22	0.42	1.91	3	1
1:E:50:ILE:HG12	1:E:62:THR:C	0.42	2.35	3	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:E:81:TYR:CE2	1:E:82:ASP:O	0.42	2.73	3	1
1:E:136:ILE:CG2	1:E:137:VAL:N	0.42	2.82	14	2
1:F:62:THR:C	1:F:63:ILE:HG23	0.42	2.34	3	1
1:B:41:PHE:CB	1:B:71:ARG:HB2	0.42	2.45	12	4
1:A:48:ARG:NE	1:A:64:LEU:O	0.42	2.53	5	1
1:B:91:SER:HB3	1:B:187:LEU:HD21	0.42	1.91	5	1
1:C:53:ASN:OD1	1:C:53:ASN:N	0.42	2.52	13	2
1:D:104:ILE:CG1	1:D:153:LEU:CD1	0.42	2.97	5	1
1:A:58:VAL:O	1:A:121:TYR:CZ	0.42	2.73	6	1
1:D:134:PRO:O	1:D:138:ASN:CB	0.42	2.67	6	2
1:A:105:SER:HA	1:A:141:LEU:HD12	0.42	1.90	7	1
1:C:59:GLN:OE1	1:C:121:TYR:CE1	0.42	2.73	7	1
1:C:132:VAL:CG2	1:C:175:PHE:CE2	0.42	3.03	7	1
1:E:59:GLN:HA	1:E:121:TYR:CZ	0.42	2.50	7	1
1:D:109:LEU:HD23	1:D:110:SER:N	0.42	2.30	8	2
1:E:12:LEU:N	1:E:13:PRO:HD2	0.42	2.29	14	3
1:F:52:PHE:CD2	1:F:53:ASN:N	0.42	2.88	8	1
1:A:72:ILE:H	1:A:73:PRO:HD2	0.42	1.73	9	1
1:B:189:PHE:CE2	1:C:187:LEU:CD2	0.42	3.02	9	1
1:D:121:TYR:CD1	1:D:121:TYR:C	0.42	2.90	9	1
1:D:71:ARG:O	1:D:71:ARG:CG	0.42	2.68	10	1
1:A:48:ARG:H	1:A:63:ILE:HB	0.42	1.73	11	1
1:A:102:VAL:HG21	1:A:153:LEU:HD13	0.42	1.89	11	1
1:A:158:ALA:HB2	1:F:93:PRO:HD2	0.42	1.90	12	1
1:D:144:VAL:HG23	1:D:145:VAL:N	0.42	2.29	12	1
1:E:51:PHE:CD2	1:E:51:PHE:O	0.42	2.73	12	1
1:A:165:ARG:HG3	1:A:182:VAL:HG21	0.42	1.92	13	1
1:C:24:LYS:HA	1:C:27:LEU:HD12	0.42	1.92	13	1
1:D:133:LEU:HB3	1:D:134:PRO:CD	0.42	2.45	13	1
1:E:110:SER:HB3	1:E:177:LEU:HD21	0.42	1.90	13	1
1:F:178:ILE:N	1:F:178:ILE:HD12	0.42	2.30	13	1
1:D:88:ARG:CD	1:D:133:LEU:HD13	0.42	2.44	14	1
1:E:101:MET:C	1:E:102:VAL:HG13	0.42	2.35	14	1
1:F:59:GLN:NE2	1:F:79:ILE:HD13	0.42	2.29	14	1
1:A:106:LEU:HD23	1:A:107:ARG:H	0.42	1.72	15	1
1:A:131:ARG:O	1:A:135:SER:CB	0.42	2.68	15	1
1:C:34:TYR:CE1	1:D:34:TYR:OH	0.42	2.73	11	2
1:C:50:ILE:HG12	1:C:79:ILE:O	0.42	2.15	1	3
1:E:108:VAL:HG23	1:E:180:ASP:OD1	0.42	2.15	1	1
1:B:148:PHE:C	1:B:148:PHE:CD2	0.42	2.93	2	1
1:D:154:ILE:HD12	1:D:155:THR:HG23	0.42	1.90	2	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:E:54:ARG:O	1:E:56:GLY:N	0.42	2.52	2	1
1:F:91:SER:CB	1:F:187:LEU:HD21	0.42	2.44	2	1
1:A:49:ALA:O	1:A:64:LEU:CB	0.42	2.68	3	2
1:A:50:ILE:CG1	1:A:80:ILE:HA	0.42	2.44	13	2
1:A:90:ILE:HD11	1:A:185:THR:O	0.42	2.13	3	1
1:A:160:VAL:HG12	1:A:164:ILE:HG12	0.42	1.91	3	1
1:B:45:GLY:O	1:B:65:ALA:CB	0.42	2.68	3	1
1:A:12:LEU:N	1:A:13:PRO:HD2	0.42	2.29	13	6
1:F:62:THR:HG22	1:F:118:PRO:N	0.42	2.28	4	2
1:D:44:GLU:O	1:D:66:GLU:HA	0.42	2.15	5	1
1:E:60:GLN:OE1	1:E:79:ILE:HG22	0.42	2.15	5	1
1:E:90:ILE:HG12	1:E:106:LEU:O	0.42	2.15	5	1
1:C:68:LEU:O	1:C:69:HIS:CD2	0.42	2.72	6	1
1:D:128:TYR:O	1:D:132:VAL:HG23	0.42	2.15	6	2
1:F:101:MET:C	1:F:102:VAL:HG13	0.42	2.35	6	1
1:D:113:ASN:HB2	1:D:178:ILE:HD13	0.42	1.92	7	1
1:F:72:ILE:O	1:F:76:GLN:CB	0.42	2.68	7	1
1:A:41:PHE:HB3	1:A:71:ARG:CB	0.42	2.45	9	1
1:D:70:PHE:O	1:D:71:ARG:C	0.42	2.58	9	1
1:F:64:LEU:HD13	1:F:65:ALA:H	0.42	1.71	9	1
1:D:106:LEU:HD12	1:D:184:ILE:CG2	0.42	2.45	10	1
1:D:81:TYR:CD2	1:D:116:GLU:O	0.42	2.72	11	1
1:F:133:LEU:N	1:F:134:PRO:CD	0.42	2.83	11	1
1:E:55:ILE:HG23	1:E:56:GLY:N	0.42	2.29	12	1
1:D:41:PHE:CB	1:D:71:ARG:HB3	0.42	2.44	13	1
1:E:57:GLY:C	1:E:58:VAL:HG13	0.42	2.35	13	1
1:A:68:LEU:HD22	1:F:55:ILE:HD13	0.42	1.90	14	1
1:C:59:GLN:NE2	1:C:121:TYR:CD1	0.42	2.88	14	1
1:C:145:VAL:HG23	1:C:146:ALA:N	0.42	2.28	15	1
1:F:50:ILE:HG12	1:F:62:THR:O	0.42	2.14	15	1
1:B:48:ARG:HB2	1:B:63:ILE:HB	0.42	1.91	1	1
1:C:62:THR:N	1:C:81:TYR:CB	0.42	2.83	2	5
1:C:62:THR:HB	1:C:117:LEU:HB3	0.42	1.91	1	1
1:B:168:LEU:HD22	1:B:182:VAL:HG11	0.42	1.92	2	1
1:C:19:MET:O	1:C:22:ALA:HB3	0.42	2.15	2	1
1:A:155:THR:O	1:A:157:ARG:N	0.42	2.53	3	1
1:B:116:GLU:O	1:B:120:MET:CB	0.42	2.68	3	1
1:C:64:LEU:HD23	1:C:65:ALA:H	0.42	1.74	3	1
1:C:97:LYS:CD	1:C:145:VAL:O	0.42	2.68	3	1
1:C:137:VAL:HG22	1:C:171:ARG:CZ	0.42	2.45	3	1
1:D:41:PHE:CB	1:D:71:ARG:HB2	0.42	2.45	3	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:D:104:ILE:HG23	1:D:104:ILE:O	0.42	2.15	3	1
1:F:51:PHE:O	1:F:59:GLN:NE2	0.42	2.53	3	1
1:F:92:SER:CB	1:F:103:ASN:HB2	0.42	2.45	3	1
1:B:44:GLU:C	1:B:66:GLU:N	0.42	2.73	4	1
1:D:180:ASP:OD2	1:D:180:ASP:N	0.42	2.53	4	1
1:E:50:ILE:CG2	1:E:117:LEU:CD2	0.42	2.98	4	1
1:E:72:ILE:H	1:E:73:PRO:HD2	0.42	1.74	4	1
1:A:23:LEU:CD1	1:F:25:LEU:HD21	0.42	2.44	5	1
1:C:112:PRO:O	1:C:114:ALA:N	0.42	2.52	5	1
1:D:66:GLU:CG	1:D:67:GLY:N	0.42	2.83	5	1
1:F:144:VAL:HG21	1:F:164:ILE:HD13	0.42	1.88	5	1
1:A:102:VAL:HG21	1:A:150:ALA:HB2	0.42	1.91	6	1
1:A:120:MET:CE	1:A:124:LEU:HD23	0.42	2.45	6	1
1:B:97:LYS:CG	1:B:146:ALA:O	0.42	2.68	6	1
1:B:108:VAL:CG1	1:B:137:VAL:CG2	0.42	2.97	15	2
1:C:53:ASN:ND2	1:C:75:PHE:CZ	0.42	2.87	8	1
1:C:64:LEU:HD11	1:C:118:PRO:HG3	0.42	1.91	8	1
1:E:62:THR:CG2	1:E:63:ILE:N	0.42	2.83	8	1
1:A:133:LEU:HB3	1:A:134:PRO:CD	0.42	2.43	9	1
1:E:154:ILE:CG2	1:E:189:PHE:CZ	0.42	3.02	9	1
1:B:106:LEU:CD2	1:B:164:ILE:HG21	0.42	2.45	10	1
1:C:40:VAL:O	1:C:41:PHE:CD1	0.42	2.72	10	1
1:C:52:PHE:CD1	1:C:58:VAL:HA	0.42	2.50	10	2
1:C:103:ASN:O	1:C:104:ILE:HD13	0.42	2.14	10	1
1:E:65:ALA:HB2	1:E:115:GLN:CD	0.42	2.35	10	1
1:F:48:ARG:HG2	1:F:64:LEU:C	0.42	2.35	11	1
1:C:52:PHE:CE1	1:C:77:TYR:HB3	0.42	2.50	14	1
1:A:168:LEU:HD13	1:A:168:LEU:C	0.42	2.35	15	1
1:B:92:SER:HB3	1:B:141:LEU:HD21	0.42	1.91	15	1
1:F:58:VAL:O	1:F:59:GLN:O	0.42	2.37	15	1
1:F:64:LEU:CB	1:F:80:ILE:CG2	0.42	2.97	15	1
1:C:75:PHE:CD1	1:C:75:PHE:O	0.42	2.73	1	2
1:C:52:PHE:CG	1:C:58:VAL:O	0.42	2.73	2	1
1:C:173:LYS:HA	1:C:176:SER:O	0.42	2.14	7	3
1:E:134:PRO:O	1:E:138:ASN:CB	0.42	2.68	2	1
1:A:34:TYR:OH	1:F:34:TYR:CE1	0.42	2.70	3	1
1:A:52:PHE:CE2	1:A:53:ASN:O	0.42	2.73	3	1
1:B:120:MET:O	1:B:124:LEU:HB2	0.42	2.14	3	1
1:D:50:ILE:CD1	1:D:80:ILE:CG2	0.42	2.98	3	1
1:E:154:ILE:HG13	1:E:155:THR:N	0.42	2.30	3	1
1:A:42:THR:OG1	1:A:70:PHE:CD2	0.42	2.73	4	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:88:ARG:HG2	1:A:133:LEU:HD13	0.42	1.92	4	1
1:E:48:ARG:HG3	1:E:49:ALA:N	0.42	2.29	4	1
1:E:62:THR:O	1:E:117:LEU:CD2	0.42	2.68	4	1
1:B:106:LEU:O	1:B:137:VAL:CG1	0.42	2.67	5	1
1:C:39:SER:O	1:C:40:VAL:HG13	0.42	2.15	6	2
1:E:105:SER:CB	1:E:185:THR:O	0.42	2.68	6	1
1:F:52:PHE:CZ	1:F:53:ASN:O	0.42	2.72	7	3
1:A:77:TYR:CG	1:A:78:PRO:HD2	0.42	2.50	7	1
1:B:40:VAL:O	1:B:41:PHE:CD1	0.42	2.73	13	2
1:B:72:ILE:CG2	1:B:76:GLN:CB	0.42	2.98	7	1
1:A:81:TYR:CE2	1:A:82:ASP:O	0.42	2.73	8	1
1:B:58:VAL:HG11	1:C:45:GLY:O	0.42	2.15	8	1
1:E:136:ILE:HG13	1:E:137:VAL:HG13	0.42	1.90	8	1
1:A:124:LEU:O	1:A:128:TYR:CE1	0.42	2.73	9	1
1:B:108:VAL:HG21	1:B:136:ILE:HD11	0.42	1.90	9	1
1:E:50:ILE:HG13	1:E:79:ILE:O	0.42	2.14	9	1
1:F:71:ARG:CG	1:F:71:ARG:O	0.42	2.68	9	1
1:A:41:PHE:CE1	1:A:72:ILE:CD1	0.42	3.02	10	1
1:D:106:LEU:HD13	1:D:164:ILE:CG2	0.42	2.45	11	1
1:D:108:VAL:HG22	1:D:168:LEU:CD2	0.42	2.45	11	1
1:D:117:LEU:HD13	1:D:120:MET:SD	0.42	2.54	12	1
1:A:73:PRO:O	1:A:74:TRP:CG	0.42	2.72	13	1
1:B:127:ASP:O	1:B:128:TYR:CG	0.42	2.73	13	1
1:F:108:VAL:CG2	1:F:137:VAL:CG2	0.42	2.98	13	1
1:C:40:VAL:HG21	1:C:44:GLU:OE2	0.42	2.14	14	1
1:D:104:ILE:HG21	1:D:145:VAL:HG22	0.42	1.89	14	1
1:A:53:ASN:OD1	1:A:53:ASN:N	0.42	2.51	15	1
1:E:90:ILE:HB	1:E:105:SER:CA	0.42	2.44	15	1
1:A:178:ILE:C	1:A:178:ILE:HD12	0.42	2.35	1	1
1:B:52:PHE:CE1	1:B:53:ASN:O	0.42	2.72	1	3
1:B:41:PHE:CG	1:B:70:PHE:O	0.42	2.73	2	1
1:B:133:LEU:O	1:B:137:VAL:CG2	0.42	2.67	2	4
1:A:62:THR:O	1:A:63:ILE:CG2	0.42	2.64	3	2
1:A:106:LEU:CD1	1:A:184:ILE:CG1	0.42	2.98	3	1
1:D:117:LEU:CG	1:D:118:PRO:HD3	0.42	2.45	3	1
1:E:64:LEU:HD12	1:E:118:PRO:HG3	0.42	1.92	3	1
1:D:52:PHE:CE1	1:D:53:ASN:O	0.42	2.73	9	2
1:E:60:GLN:O	1:E:61:ASP:CB	0.42	2.67	6	2
1:F:47:HIS:CE1	1:F:82:ASP:OD1	0.42	2.73	4	1
1:A:52:PHE:CZ	1:A:53:ASN:O	0.42	2.73	13	2
1:D:106:LEU:N	1:D:184:ILE:HD13	0.42	2.30	5	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:E:136:ILE:HG13	1:E:137:VAL:N	0.42	2.30	5	1
1:C:62:THR:O	1:C:63:ILE:CB	0.42	2.68	6	1
1:C:71:ARG:O	1:C:71:ARG:CG	0.42	2.67	6	1
1:D:168:LEU:HD13	1:D:168:LEU:O	0.42	2.15	6	1
1:B:42:THR:O	1:B:67:GLY:O	0.42	2.38	7	2
1:C:61:ASP:O	1:C:81:TYR:CD2	0.42	2.73	7	2
1:B:58:VAL:HG22	1:C:66:GLU:HG2	0.42	1.92	9	1
1:B:72:ILE:HG22	1:B:73:PRO:HD2	0.42	1.91	9	1
1:C:58:VAL:O	1:C:121:TYR:CE2	0.42	2.72	9	1
1:C:133:LEU:O	1:C:137:VAL:CG2	0.42	2.68	9	1
1:F:137:VAL:CG1	1:F:141:LEU:HD13	0.42	2.45	9	1
1:A:90:ILE:N	1:A:90:ILE:HD12	0.42	2.29	10	1
1:B:108:VAL:CG1	1:B:137:VAL:HG23	0.42	2.45	10	1
1:C:107:ARG:O	1:C:182:VAL:HG11	0.42	2.15	10	1
1:A:48:ARG:HB3	1:A:63:ILE:CB	0.42	2.45	11	1
1:C:106:LEU:HD11	1:C:182:VAL:CG2	0.42	2.44	14	2
1:B:50:ILE:CG1	1:B:79:ILE:O	0.42	2.68	13	1
1:B:59:GLN:HA	1:B:121:TYR:CE1	0.42	2.50	13	1
1:B:184:ILE:HD13	1:B:185:THR:C	0.42	2.35	13	1
1:B:175:PHE:CD2	1:B:176:SER:HB2	0.42	2.50	14	1
1:B:175:PHE:CE2	1:B:176:SER:CB	0.42	3.03	14	1
1:D:48:ARG:O	1:D:80:ILE:CG2	0.42	2.67	14	1
1:E:50:ILE:HD12	1:E:63:ILE:HA	0.42	1.92	14	1
1:A:178:ILE:O	1:A:178:ILE:CG2	0.42	2.67	15	1
1:D:34:TYR:O	1:D:37:ARG:CG	0.42	2.68	15	1
1:B:62:THR:O	1:B:63:ILE:HG23	0.41	2.15	1	1
1:B:63:ILE:H	1:B:117:LEU:HB2	0.41	1.75	1	1
1:C:102:VAL:CG1	1:C:153:LEU:HD22	0.41	2.44	1	1
1:E:73:PRO:O	1:E:74:TRP:CG	0.41	2.73	1	1
1:C:57:GLY:C	1:C:58:VAL:HG13	0.41	2.35	2	1
1:F:187:LEU:HD12	1:F:187:LEU:N	0.41	2.29	2	1
1:A:42:THR:OG1	1:A:70:PHE:CD1	0.41	2.72	3	1
1:A:72:ILE:HG22	1:A:73:PRO:HD3	0.41	1.91	3	1
1:C:63:ILE:H	1:C:117:LEU:HB3	0.41	1.74	4	1
1:C:102:VAL:HG11	1:C:150:ALA:CB	0.41	2.45	4	1
1:C:105:SER:O	1:C:184:ILE:HG13	0.41	2.15	5	1
1:F:50:ILE:HD11	1:F:80:ILE:CA	0.41	2.45	8	2
1:A:133:LEU:N	1:A:134:PRO:CD	0.41	2.83	7	1
1:A:160:VAL:HG12	1:A:164:ILE:HD11	0.41	1.91	8	1
1:B:99:LEU:HD23	1:B:99:LEU:N	0.41	2.30	8	1
1:F:106:LEU:CD1	1:F:164:ILE:HG21	0.41	2.44	13	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:49:ALA:HB1	1:A:64:LEU:HD12	0.41	1.91	9	1
1:A:54:ARG:HD3	1:B:68:LEU:HD13	0.41	1.91	9	1
1:C:109:LEU:HD23	1:C:110:SER:N	0.41	2.30	14	2
1:D:132:VAL:HG13	1:D:175:PHE:CE1	0.41	2.50	9	1
1:A:109:LEU:HD21	1:A:111:ARG:CG	0.41	2.45	10	1
1:B:12:LEU:HB3	1:B:13:PRO:HD3	0.41	1.91	10	1
1:D:135:SER:O	1:D:139:GLU:HB2	0.41	2.15	11	1
1:C:48:ARG:CG	1:C:49:ALA:N	0.41	2.83	12	1
1:E:112:PRO:O	1:E:117:LEU:HD11	0.41	2.16	12	1
1:E:133:LEU:N	1:E:134:PRO:CD	0.41	2.83	12	1
1:D:52:PHE:CE2	1:D:57:GLY:O	0.41	2.73	13	1
1:B:172:ALA:O	1:B:175:PHE:CD1	0.41	2.73	14	2
1:C:50:ILE:HG12	1:C:62:THR:O	0.41	2.14	14	1
1:C:137:VAL:HG23	1:C:138:ASN:OD1	0.41	2.15	14	1
1:D:104:ILE:HD12	1:D:186:GLU:OE1	0.41	2.14	14	1
1:E:132:VAL:O	1:E:136:ILE:CG2	0.41	2.68	14	1
1:F:125:GLY:O	1:F:128:TYR:CE1	0.41	2.73	15	1
1:A:50:ILE:HD11	1:A:80:ILE:CA	0.41	2.45	1	2
1:A:58:VAL:O	1:A:121:TYR:CE2	0.41	2.73	1	2
1:D:133:LEU:O	1:D:137:VAL:CG2	0.41	2.68	1	3
1:F:72:ILE:CG1	1:F:72:ILE:O	0.41	2.68	1	1
1:B:20:GLY:O	1:B:23:LEU:HD23	0.41	2.15	2	1
1:B:124:LEU:HD21	1:B:128:TYR:CG	0.41	2.50	2	1
1:D:52:PHE:CD1	1:D:58:VAL:CG1	0.41	3.03	2	1
1:A:106:LEU:CD1	1:A:141:LEU:HD12	0.41	2.30	3	1
1:B:103:ASN:CB	1:B:187:LEU:O	0.41	2.68	12	3
1:A:35:GLY:HA2	1:B:34:TYR:CD1	0.41	2.50	7	2
1:D:41:PHE:CB	1:D:71:ARG:CB	0.41	2.98	5	2
1:C:48:ARG:CB	1:C:64:LEU:O	0.41	2.68	6	1
1:E:60:GLN:CG	1:E:79:ILE:CG2	0.41	2.97	6	1
1:E:140:VAL:O	1:E:144:VAL:CG2	0.41	2.69	7	3
1:C:185:THR:O	1:C:185:THR:CG2	0.41	2.68	7	1
1:A:48:ARG:O	1:A:64:LEU:CA	0.41	2.68	9	1
1:B:59:GLN:CG	1:B:121:TYR:CE2	0.41	3.03	9	1
1:F:79:ILE:O	1:F:79:ILE:CD1	0.41	2.68	10	2
1:E:59:GLN:N	1:E:121:TYR:CZ	0.41	2.88	10	1
1:A:66:GLU:OE1	1:F:58:VAL:HG11	0.41	2.14	11	1
1:B:55:ILE:O	1:B:55:ILE:HG22	0.41	2.14	12	1
1:E:189:PHE:CE2	1:F:187:LEU:HD22	0.41	2.51	12	1
1:D:124:LEU:CD2	1:D:128:TYR:CD2	0.41	3.03	13	1
1:D:165:ARG:HA	1:D:182:VAL:HG11	0.41	1.91	13	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:E:154:ILE:HD12	1:E:189:PHE:CZ	0.41	2.50	13	1
1:A:54:ARG:CB	1:B:68:LEU:CD2	0.41	2.98	14	1
1:A:105:SER:O	1:A:184:ILE:HG21	0.41	2.15	14	1
1:F:58:VAL:O	1:F:121:TYR:CE1	0.41	2.73	14	1
1:F:102:VAL:CG1	1:F:145:VAL:HG13	0.41	2.43	14	1
1:A:108:VAL:CG2	1:A:168:LEU:HD11	0.41	2.46	15	1
1:B:64:LEU:CD1	1:B:80:ILE:HG21	0.41	2.42	15	1
1:D:33:ALA:HA	1:D:36:VAL:HG22	0.41	1.92	15	1
1:F:50:ILE:HG22	1:F:52:PHE:CE2	0.41	2.50	15	1
1:F:148:PHE:HE2	1:F:163:LEU:HD13	0.41	1.73	15	1
1:A:39:SER:O	1:A:40:VAL:HG13	0.41	2.15	15	2
1:A:48:ARG:HG2	1:A:64:LEU:O	0.41	2.16	2	1
1:A:49:ALA:HA	1:A:50:ILE:HD12	0.41	1.92	2	2
1:A:148:PHE:CD1	1:A:152:GLN:OE1	0.41	2.73	2	1
1:F:62:THR:C	1:F:117:LEU:HB2	0.41	2.36	2	1
1:E:98:ASP:OD1	1:E:102:VAL:HG21	0.41	2.16	3	1
1:F:93:PRO:O	1:F:94:THR:CG2	0.41	2.67	3	1
1:F:153:LEU:HD21	1:F:160:VAL:HG11	0.41	1.93	3	1
1:B:46:GLY:C	1:B:47:HIS:CG	0.41	2.93	4	1
1:C:90:ILE:HG12	1:C:106:LEU:O	0.41	2.15	4	1
1:F:49:ALA:CB	1:F:70:PHE:CE1	0.41	3.03	4	1
1:A:104:ILE:HG23	1:A:141:LEU:HD21	0.41	1.91	5	1
1:B:32:VAL:O	1:B:36:VAL:HG23	0.41	2.15	5	1
1:D:58:VAL:O	1:D:58:VAL:CG1	0.41	2.68	5	1
1:E:73:PRO:CG	1:E:76:GLN:CB	0.41	2.99	5	2
1:E:50:ILE:CD1	1:E:62:THR:O	0.41	2.68	6	1
1:B:34:TYR:CE2	1:C:34:TYR:OH	0.41	2.73	7	2
1:C:10:GLY:O	1:C:14:ALA:HB2	0.41	2.16	7	1
1:C:50:ILE:CG2	1:C:117:LEU:CD2	0.41	2.97	7	1
1:C:59:GLN:HG2	1:C:121:TYR:CE2	0.41	2.50	7	1
1:A:77:TYR:CD1	1:A:78:PRO:HD2	0.41	2.51	8	1
1:D:41:PHE:CD1	1:D:41:PHE:O	0.41	2.73	8	1
1:C:48:ARG:HG2	1:C:63:ILE:CB	0.41	2.45	9	1
1:E:61:ASP:HA	1:E:81:TYR:HB2	0.41	1.90	9	1
1:C:45:GLY:C	1:C:65:ALA:O	0.41	2.58	10	2
1:D:72:ILE:O	1:D:72:ILE:CG2	0.41	2.68	10	1
1:A:62:THR:O	1:A:117:LEU:HD13	0.41	2.16	11	1
1:D:104:ILE:CG2	1:D:145:VAL:CG1	0.41	2.98	11	1
1:C:84:ARG:O	1:C:85:ALA:HB3	0.41	2.15	12	1
1:C:91:SER:O	1:D:185:THR:CG2	0.41	2.68	12	1
1:E:69:HIS:O	1:E:70:PHE:CD1	0.41	2.73	12	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:D:72:ILE:O	1:D:76:GLN:CB	0.41	2.68	13	1
1:B:116:GLU:O	1:B:120:MET:HB3	0.41	2.15	14	1
1:E:63:ILE:HG13	1:E:117:LEU:CG	0.41	2.45	14	1
1:E:115:GLN:O	1:E:116:GLU:CB	0.41	2.67	14	1
1:F:49:ALA:CA	1:F:64:LEU:HD12	0.41	2.46	15	1
1:F:106:LEU:HB2	1:F:141:LEU:HD21	0.41	1.92	1	1
1:C:134:PRO:O	1:C:138:ASN:N	0.41	2.51	2	2
1:D:28:GLY:HA3	1:E:27:LEU:HD23	0.41	1.92	2	1
1:E:48:ARG:O	1:E:80:ILE:CG2	0.41	2.69	2	2
1:F:59:GLN:O	1:F:59:GLN:NE2	0.41	2.54	2	1
1:A:52:PHE:CD1	1:A:77:TYR:CB	0.41	3.04	3	1
1:A:137:VAL:HG23	1:A:138:ASN:N	0.41	2.30	3	1
1:A:13:PRO:O	1:A:14:ALA:HB3	0.41	2.14	4	1
1:A:184:ILE:O	1:A:184:ILE:CG2	0.41	2.68	5	1
1:F:61:ASP:HA	1:F:81:TYR:HB2	0.41	1.91	5	1
1:B:124:LEU:HD13	1:B:175:PHE:HB3	0.41	1.93	6	1
1:C:80:ILE:HD13	1:C:80:ILE:N	0.41	2.28	6	1
1:D:102:VAL:HG21	1:D:150:ALA:CB	0.41	2.44	6	1
1:A:40:VAL:O	1:A:41:PHE:CD2	0.41	2.73	8	1
1:D:52:PHE:CD1	1:D:58:VAL:HA	0.41	2.50	8	1
1:E:48:ARG:CD	1:E:64:LEU:O	0.41	2.69	8	1
1:F:50:ILE:HG12	1:F:80:ILE:HG22	0.41	1.92	9	2
1:F:108:VAL:HG12	1:F:137:VAL:CG1	0.41	2.44	8	1
1:A:63:ILE:C	1:A:80:ILE:HB	0.41	2.35	9	1
1:B:132:VAL:HG22	1:B:175:PHE:CE1	0.41	2.50	9	1
1:D:131:ARG:NH1	1:E:113:ASN:ND2	0.41	2.69	9	1
1:F:104:ILE:HG22	1:F:145:VAL:CG2	0.41	2.33	9	1
1:C:118:PRO:O	1:C:121:TYR:CD2	0.41	2.74	11	1
1:F:129:GLU:O	1:F:133:LEU:CB	0.41	2.67	11	1
1:A:175:PHE:O	1:A:177:LEU:N	0.41	2.52	12	1
1:E:121:TYR:OH	1:E:126:LEU:HD12	0.41	2.16	12	1
1:A:23:LEU:CD1	1:A:24:LYS:N	0.41	2.83	13	1
1:F:48:ARG:HG2	1:F:64:LEU:O	0.41	2.16	13	1
1:B:130:GLU:CD	1:C:85:ALA:HB2	0.41	2.35	14	1
1:D:144:VAL:HG21	1:D:164:ILE:CG2	0.41	2.33	14	1
1:E:128:TYR:CE1	1:F:113:ASN:OD1	0.41	2.73	14	1
1:B:106:LEU:HA	1:B:184:ILE:CG2	0.41	2.45	15	1
1:D:106:LEU:CB	1:D:184:ILE:CG2	0.41	2.98	15	1
1:D:48:ARG:CD	1:D:48:ARG:N	0.41	2.84	2	1
1:D:104:ILE:HG23	1:D:153:LEU:HD11	0.41	1.91	2	1
1:F:61:ASP:O	1:F:62:THR:CB	0.41	2.67	2	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:D:132:VAL:HG13	1:D:136:ILE:HD12	0.41	1.92	3	1
1:E:58:VAL:O	1:E:121:TYR:CE1	0.41	2.74	3	1
1:E:102:VAL:CG1	1:E:150:ALA:CB	0.41	2.99	4	1
1:A:63:ILE:O	1:A:117:LEU:CD2	0.41	2.69	5	1
1:D:45:GLY:O	1:D:46:GLY:O	0.41	2.38	5	1
1:E:104:ILE:CD1	1:E:145:VAL:CG2	0.41	2.99	5	1
1:B:51:PHE:O	1:B:51:PHE:CD2	0.41	2.73	6	1
1:D:92:SER:HB2	1:D:141:LEU:HD21	0.41	1.92	6	1
1:F:52:PHE:CE1	1:F:57:GLY:O	0.41	2.74	12	2
1:A:94:THR:HB	1:A:145:VAL:HG21	0.41	1.92	7	1
1:A:140:VAL:O	1:A:144:VAL:CG1	0.41	2.69	7	1
1:D:47:HIS:C	1:D:48:ARG:NE	0.41	2.74	7	1
1:E:74:TRP:O	1:E:75:PHE:CG	0.41	2.74	8	1
1:B:168:LEU:HD22	1:B:182:VAL:HG22	0.41	1.92	9	1
1:E:184:ILE:O	1:E:184:ILE:CG1	0.41	2.69	9	1
1:F:64:LEU:HD13	1:F:64:LEU:C	0.41	2.35	9	1
1:B:109:LEU:HD21	1:B:111:ARG:HH12	0.41	1.74	10	1
1:B:136:ILE:N	1:B:136:ILE:CD1	0.41	2.83	10	1
1:C:63:ILE:CG2	1:C:64:LEU:N	0.41	2.84	10	1
1:F:111:ARG:O	1:F:111:ARG:CG	0.41	2.67	10	1
1:A:116:GLU:CB	1:A:118:PRO:HD2	0.41	2.45	11	1
1:D:53:ASN:ND2	1:D:75:PHE:O	0.41	2.54	11	1
1:E:41:PHE:CD1	1:E:71:ARG:HB3	0.41	2.50	11	1
1:F:133:LEU:N	1:F:134:PRO:HD2	0.41	2.31	11	1
1:E:52:PHE:CD2	1:E:57:GLY:O	0.41	2.73	12	1
1:B:45:GLY:O	1:B:66:GLU:CB	0.41	2.68	13	1
1:D:164:ILE:CG2	1:D:168:LEU:HD23	0.41	2.45	13	1
1:F:50:ILE:CD1	1:F:62:THR:O	0.41	2.68	13	1
1:A:27:LEU:HD12	1:F:24:LYS:O	0.41	2.15	14	1
1:D:50:ILE:O	1:D:78:PRO:HA	0.41	2.16	15	1
1:D:106:LEU:CD1	1:D:168:LEU:CD1	0.41	2.99	1	1
1:F:58:VAL:O	1:F:121:TYR:CE2	0.41	2.73	1	1
1:F:175:PHE:O	1:F:175:PHE:CD1	0.41	2.73	1	1
1:A:51:PHE:O	1:A:51:PHE:CD1	0.41	2.73	2	1
1:A:175:PHE:CD2	1:A:176:SER:HB2	0.41	2.51	2	1
1:D:41:PHE:HB3	1:D:71:ARG:HB2	0.41	1.92	2	3
1:D:103:ASN:CB	1:D:187:LEU:O	0.41	2.69	2	2
1:F:97:LYS:CB	1:F:148:PHE:O	0.41	2.69	2	1
1:A:50:ILE:HG13	1:A:80:ILE:HA	0.41	1.92	13	2
1:A:88:ARG:O	1:A:108:VAL:CG2	0.41	2.68	3	1
1:B:43:VAL:CG2	1:B:67:GLY:CA	0.41	2.99	3	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:59:GLN:OE1	1:B:77:TYR:CD2	0.41	2.74	3	1
1:C:62:THR:OG1	1:C:117:LEU:HB3	0.41	2.14	3	1
1:C:79:ILE:O	1:C:79:ILE:CG2	0.41	2.69	3	1
1:F:142:LYS:O	1:F:146:ALA:HB2	0.41	2.16	3	1
1:A:41:PHE:CE1	1:A:72:ILE:HG23	0.41	2.51	4	1
1:C:52:PHE:CD1	1:C:57:GLY:O	0.41	2.74	4	1
1:F:63:ILE:HG13	1:F:117:LEU:CG	0.41	2.45	4	1
1:A:94:THR:HG22	1:B:157:ARG:NH2	0.41	2.31	5	1
1:C:164:ILE:HG23	1:C:182:VAL:CG1	0.41	2.45	5	1
1:E:106:LEU:HA	1:E:184:ILE:HA	0.41	1.92	5	1
1:A:82:ASP:N	1:A:82:ASP:OD1	0.41	2.54	6	1
1:A:124:LEU:C	1:A:124:LEU:CD1	0.41	2.87	6	1
1:B:58:VAL:HG13	1:B:79:ILE:HD13	0.41	1.91	6	1
1:D:124:LEU:HD22	1:D:128:TYR:CD1	0.41	2.50	6	1
1:E:52:PHE:CZ	1:E:53:ASN:O	0.41	2.73	6	2
1:D:50:ILE:HG13	1:D:117:LEU:CD1	0.41	2.45	7	1
1:E:132:VAL:CG2	1:E:136:ILE:CD1	0.41	2.98	7	1
1:F:23:LEU:HD23	1:F:23:LEU:C	0.41	2.36	7	1
1:B:47:HIS:HB3	1:B:63:ILE:HG12	0.41	1.92	8	1
1:C:153:LEU:HD23	1:C:153:LEU:C	0.41	2.36	8	1
1:A:45:GLY:HA2	1:A:66:GLU:CA	0.41	2.46	9	1
1:A:127:ASP:O	1:A:128:TYR:CB	0.41	2.68	9	1
1:C:70:PHE:O	1:C:70:PHE:CD2	0.41	2.73	9	1
1:A:91:SER:HA	1:A:105:SER:HB2	0.41	1.91	10	1
1:C:64:LEU:O	1:C:64:LEU:HD23	0.41	2.14	11	2
1:E:61:ASP:CA	1:E:81:TYR:HB2	0.41	2.46	10	1
1:E:83:ILE:HG22	1:E:112:PRO:CB	0.41	2.45	10	1
1:A:48:ARG:HB3	1:A:63:ILE:HB	0.41	1.92	11	1
1:C:144:VAL:HG13	1:C:163:LEU:HD23	0.41	1.92	11	1
1:B:51:PHE:CD1	1:B:76:GLN:HG2	0.41	2.50	12	1
1:F:73:PRO:O	1:F:74:TRP:CG	0.41	2.74	12	1
1:A:72:ILE:CG1	1:A:72:ILE:O	0.41	2.69	14	1
1:F:52:PHE:CD1	1:F:58:VAL:HG13	0.41	2.50	14	1
1:F:129:GLU:HA	1:F:133:LEU:HD22	0.41	1.93	14	1
1:A:84:ARG:O	1:A:85:ALA:O	0.41	2.39	15	1
1:B:71:ARG:O	1:B:72:ILE:HB	0.41	2.16	15	1
1:A:63:ILE:HD11	1:A:83:ILE:HD11	0.41	1.93	1	1
1:D:25:LEU:HD21	1:E:26:LEU:HD22	0.41	1.92	2	1
1:D:50:ILE:HD11	1:D:80:ILE:CA	0.41	2.46	2	2
1:E:41:PHE:CD2	1:E:71:ARG:HB3	0.41	2.51	2	1
1:E:90:ILE:HG23	1:E:105:SER:HA	0.41	1.91	2	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:F:189:PHE:O	1:F:189:PHE:CD2	0.41	2.74	2	1
1:B:58:VAL:CG1	1:B:121:TYR:OH	0.41	2.68	3	1
1:B:63:ILE:N	1:B:81:TYR:N	0.41	2.63	3	1
1:B:64:LEU:N	1:B:80:ILE:HG13	0.41	2.30	3	1
1:F:117:LEU:N	1:F:118:PRO:HD3	0.41	2.30	3	1
1:A:90:ILE:HG12	1:A:106:LEU:O	0.41	2.15	4	1
1:B:50:ILE:CG1	1:B:62:THR:HB	0.41	2.46	5	1
1:B:136:ILE:HD11	1:B:171:ARG:CG	0.41	2.46	5	1
1:D:41:PHE:HB3	1:D:71:ARG:CB	0.41	2.46	5	2
1:E:35:GLY:HA2	1:F:34:TYR:CD2	0.41	2.51	5	1
1:E:164:ILE:HD12	1:E:164:ILE:H	0.41	1.76	5	1
1:C:35:GLY:HA2	1:D:34:TYR:CD1	0.41	2.51	7	1
1:D:45:GLY:O	1:D:47:HIS:CD2	0.41	2.73	7	1
1:F:41:PHE:CB	1:F:71:ARG:HB2	0.41	2.46	7	2
1:A:68:LEU:O	1:A:69:HIS:CG	0.41	2.73	8	1
1:B:97:LYS:CD	1:B:149:ASN:HA	0.41	2.46	8	1
1:A:120:MET:O	1:A:124:LEU:CB	0.41	2.69	9	1
1:B:135:SER:OG	1:B:136:ILE:N	0.41	2.54	9	1
1:F:77:TYR:CG	1:F:78:PRO:HD2	0.41	2.50	9	1
1:A:108:VAL:HG21	1:A:136:ILE:HD11	0.41	1.91	10	1
1:D:90:ILE:HG12	1:D:106:LEU:O	0.41	2.16	10	1
1:F:48:ARG:O	1:F:80:ILE:CG2	0.41	2.69	11	1
1:C:72:ILE:CG1	1:C:73:PRO:HD2	0.41	2.44	13	1
1:D:41:PHE:CD1	1:D:70:PHE:HA	0.41	2.51	13	1
1:B:62:THR:CG2	1:B:117:LEU:O	0.41	2.69	14	1
1:F:63:ILE:CB	1:F:81:TYR:O	0.41	2.69	14	1
1:B:104:ILE:HD13	1:B:145:VAL:HA	0.41	1.90	1	1
1:B:160:VAL:HG12	1:B:164:ILE:HG12	0.41	1.91	1	1
1:E:79:ILE:O	1:E:79:ILE:CG2	0.41	2.68	1	1
1:E:116:GLU:CG	1:E:116:GLU:O	0.41	2.69	1	1
1:E:129:GLU:HA	1:E:132:VAL:CG2	0.41	2.46	2	1
1:F:47:HIS:C	1:F:48:ARG:NE	0.41	2.74	2	1
1:B:52:PHE:CZ	1:B:121:TYR:CD2	0.41	3.09	3	1
1:D:52:PHE:O	1:D:76:GLN:HA	0.41	2.15	3	1
1:E:48:ARG:HB3	1:E:64:LEU:CA	0.41	2.45	3	1
1:F:48:ARG:HG3	1:F:63:ILE:C	0.41	2.36	3	1
1:F:92:SER:HB2	1:F:103:ASN:HB2	0.41	1.93	3	1
1:F:140:VAL:HG12	1:F:144:VAL:CG2	0.41	2.44	3	1
1:C:113:ASN:OD1	1:C:179:LEU:HD13	0.41	2.16	4	1
1:B:48:ARG:HB3	1:B:64:LEU:CA	0.41	2.45	5	1
1:D:43:VAL:C	1:D:66:GLU:H	0.41	2.19	5	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:34:TYR:CE1	1:B:34:TYR:OH	0.41	2.73	6	1
1:C:64:LEU:O	1:C:65:ALA:O	0.41	2.38	6	1
1:B:61:ASP:O	1:B:117:LEU:O	0.41	2.38	7	1
1:E:106:LEU:HD11	1:E:182:VAL:HG13	0.41	1.91	7	1
1:A:48:ARG:CD	1:A:63:ILE:HB	0.41	2.46	8	1
1:A:50:ILE:HG13	1:A:62:THR:OG1	0.41	2.16	9	1
1:D:57:GLY:C	1:D:58:VAL:HG13	0.41	2.36	9	2
1:F:42:THR:OG1	1:F:70:PHE:CE2	0.41	2.74	9	1
1:F:103:ASN:CB	1:F:187:LEU:O	0.41	2.69	10	1
1:B:55:ILE:O	1:B:55:ILE:HG23	0.41	2.16	11	1
1:C:42:THR:O	1:C:67:GLY:O	0.41	2.38	11	1
1:C:104:ILE:CG2	1:C:141:LEU:HD21	0.41	2.46	11	1
1:F:142:LYS:O	1:F:145:VAL:HG12	0.41	2.16	11	1
1:A:104:ILE:C	1:A:104:ILE:CD1	0.41	2.89	12	1
1:B:106:LEU:HD11	1:B:168:LEU:HD22	0.41	1.93	12	1
1:C:48:ARG:HB3	1:C:64:LEU:O	0.41	2.15	13	1
1:A:71:ARG:O	1:A:71:ARG:CG	0.41	2.66	14	1
1:B:124:LEU:HD21	1:B:128:TYR:HD2	0.41	1.72	14	1
1:F:42:THR:HB	1:F:68:LEU:HD22	0.41	1.92	14	1
1:F:43:VAL:C	1:F:66:GLU:H	0.41	2.19	14	1
1:A:92:SER:OG	1:A:105:SER:N	0.41	2.54	15	1
1:D:104:ILE:HD11	1:D:145:VAL:HB	0.41	1.93	15	1
1:D:108:VAL:HG21	1:D:137:VAL:CG1	0.41	2.46	15	1
1:A:103:ASN:CB	1:A:187:LEU:O	0.41	2.69	1	1
1:B:61:ASP:CA	1:B:81:TYR:HB2	0.41	2.45	1	1
1:B:98:ASP:CG	1:B:102:VAL:HG13	0.41	2.36	1	1
1:E:132:VAL:HG12	1:E:136:ILE:HD12	0.41	1.91	1	1
1:F:48:ARG:O	1:F:63:ILE:HG22	0.41	2.16	1	1
1:F:59:GLN:OE1	1:F:121:TYR:CE1	0.41	2.73	1	1
1:A:39:SER:O	1:A:40:VAL:CG1	0.41	2.69	2	2
1:A:58:VAL:HG22	1:A:121:TYR:OH	0.41	2.15	2	1
1:C:50:ILE:HG12	1:C:62:THR:CG2	0.41	2.46	2	1
1:C:88:ARG:O	1:C:108:VAL:HG12	0.41	2.16	2	1
1:D:49:ALA:HA	1:D:50:ILE:HD13	0.41	1.93	12	2
1:B:23:LEU:HA	1:B:26:LEU:HD23	0.41	1.93	3	1
1:B:71:ARG:C	1:B:73:PRO:HD2	0.41	2.36	3	1
1:E:111:ARG:CG	1:E:179:LEU:HD23	0.41	2.45	3	1
1:E:129:GLU:HB3	1:E:133:LEU:HD12	0.41	1.91	3	1
1:F:59:GLN:OE1	1:F:121:TYR:CD2	0.41	2.74	3	1
1:F:121:TYR:CE2	1:F:122:GLN:HG3	0.41	2.51	3	1
1:A:53:ASN:HB3	1:A:75:PHE:O	0.41	2.16	4	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:115:GLN:HB2	1:A:177:LEU:HD23	0.41	1.92	4	1
1:D:75:PHE:CE2	1:D:76:GLN:OE1	0.41	2.74	4	1
1:E:50:ILE:HG21	1:E:117:LEU:HD21	0.41	1.92	4	1
1:E:59:GLN:OE1	1:E:121:TYR:CE1	0.41	2.74	4	1
1:E:70:PHE:O	1:E:71:ARG:C	0.41	2.59	4	1
1:F:59:GLN:HA	1:F:121:TYR:CZ	0.41	2.50	5	2
1:F:62:THR:HA	1:F:117:LEU:CG	0.41	2.46	4	1
1:A:41:PHE:CD1	1:A:71:ARG:HB3	0.41	2.50	5	1
1:C:63:ILE:HG13	1:C:63:ILE:O	0.41	2.15	5	1
1:E:50:ILE:HG12	1:E:79:ILE:O	0.41	2.15	14	3
1:A:102:VAL:CG2	1:A:150:ALA:CB	0.41	2.99	6	1
1:C:58:VAL:HG11	1:C:126:LEU:HD21	0.41	1.93	6	1
1:D:39:SER:CB	1:E:37:ARG:NH2	0.41	2.84	6	1
1:E:77:TYR:CG	1:E:78:PRO:HD2	0.41	2.51	6	1
1:F:73:PRO:O	1:F:74:TRP:CD1	0.41	2.74	6	1
1:F:153:LEU:CD2	1:F:160:VAL:CG2	0.41	2.99	6	1
1:B:104:ILE:CD1	1:B:145:VAL:CG2	0.41	2.99	7	1
1:D:58:VAL:O	1:D:121:TYR:CE2	0.41	2.74	7	1
1:D:71:ARG:HG3	1:D:76:GLN:CB	0.41	2.45	7	1
1:E:51:PHE:O	1:E:51:PHE:CD1	0.41	2.74	7	2
1:E:109:LEU:HD12	1:E:109:LEU:N	0.41	2.30	7	1
1:F:133:LEU:O	1:F:137:VAL:CG2	0.41	2.68	7	1
1:A:132:VAL:HG23	1:A:136:ILE:CD1	0.41	2.46	8	1
1:A:184:ILE:HD12	1:A:184:ILE:N	0.41	2.31	8	1
1:B:62:THR:O	1:B:63:ILE:HB	0.41	2.16	8	1
1:E:62:THR:HA	1:E:117:LEU:CB	0.41	2.45	8	1
1:F:76:GLN:O	1:F:77:TYR:CD2	0.41	2.74	8	1
1:C:127:ASP:OD1	1:C:128:TYR:CE2	0.41	2.74	9	1
1:E:51:PHE:O	1:E:51:PHE:CD2	0.41	2.74	9	1
1:E:75:PHE:CE2	1:E:76:GLN:OE1	0.41	2.74	9	1
1:E:148:PHE:O	1:E:148:PHE:CD1	0.41	2.74	9	1
1:F:70:PHE:HB3	1:F:72:ILE:CD1	0.41	2.45	9	1
1:F:94:THR:HG23	1:F:94:THR:O	0.41	2.16	9	1
1:F:108:VAL:CG1	1:F:137:VAL:CG2	0.41	2.99	9	1
1:A:108:VAL:CG2	1:A:137:VAL:CG2	0.41	2.99	10	2
1:A:121:TYR:OH	1:A:126:LEU:HD12	0.41	2.16	10	1
1:B:58:VAL:HG11	1:C:45:GLY:HA3	0.41	1.93	10	1
1:C:43:VAL:CA	1:C:65:ALA:HA	0.41	2.45	10	1
1:C:54:ARG:CG	1:D:68:LEU:HD12	0.41	2.45	10	1
1:C:64:LEU:HB3	1:C:80:ILE:CG1	0.41	2.45	10	1
1:D:52:PHE:CD2	1:D:53:ASN:N	0.41	2.89	10	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:D:90:ILE:HG22	1:D:105:SER:HB3	0.41	1.93	10	1
1:E:179:LEU:HD23	1:E:180:ASP:N	0.41	2.31	10	1
1:C:42:THR:O	1:C:43:VAL:C	0.41	2.59	11	1
1:C:49:ALA:HB1	1:C:64:LEU:CD1	0.41	2.44	11	1
1:C:61:ASP:OD1	1:C:81:TYR:CD1	0.41	2.74	11	1
1:D:50:ILE:HD12	1:D:117:LEU:HD11	0.41	1.91	11	1
1:D:132:VAL:HG23	1:D:136:ILE:CD1	0.41	2.46	11	1
1:A:148:PHE:CZ	1:A:163:LEU:HD22	0.41	2.51	12	1
1:B:64:LEU:HD11	1:B:70:PHE:CD1	0.41	2.51	12	1
1:C:50:ILE:HG21	1:C:59:GLN:O	0.41	2.16	12	1
1:C:91:SER:O	1:D:185:THR:HG23	0.41	2.15	12	1
1:D:106:LEU:CA	1:D:184:ILE:HG21	0.41	2.44	12	1
1:E:59:GLN:HG2	1:E:121:TYR:CD2	0.41	2.51	12	1
1:F:120:MET:HG2	1:F:176:SER:CB	0.41	2.46	12	1
1:A:140:VAL:O	1:A:144:VAL:HG22	0.41	2.16	13	1
1:B:41:PHE:CD1	1:B:78:PRO:HB3	0.41	2.50	13	1
1:B:47:HIS:N	1:B:65:ALA:HB3	0.41	2.31	13	1
1:B:61:ASP:C	1:B:62:THR:CG2	0.41	2.89	13	1
1:B:106:LEU:N	1:B:141:LEU:CD1	0.41	2.84	13	1
1:C:104:ILE:CD1	1:C:153:LEU:CD1	0.41	2.99	13	1
1:D:136:ILE:CG1	1:D:137:VAL:N	0.41	2.84	13	1
1:E:97:LYS:CD	1:E:97:LYS:N	0.41	2.84	13	1
1:F:92:SER:O	1:F:103:ASN:HA	0.41	2.16	13	1
1:A:74:TRP:CG	1:A:75:PHE:CE2	0.41	3.09	14	1
1:A:74:TRP:O	1:A:75:PHE:CG	0.41	2.74	14	1
1:D:78:PRO:O	1:D:79:ILE:HG12	0.41	2.15	14	1
1:D:89:LYS:CG	1:D:184:ILE:CD1	0.41	2.99	14	1
1:E:128:TYR:CZ	1:F:113:ASN:OD1	0.41	2.74	14	1
1:B:102:VAL:CG1	1:B:153:LEU:CD1	0.41	2.99	15	1
1:C:48:ARG:CD	1:C:63:ILE:CG2	0.41	2.98	15	1
1:C:48:ARG:HD2	1:C:63:ILE:HD13	0.41	1.92	15	1
1:C:48:ARG:H	1:C:63:ILE:HG12	0.41	1.76	15	1
1:C:54:ARG:CB	1:D:68:LEU:HD13	0.41	2.45	15	1
1:C:58:VAL:CG2	1:C:121:TYR:OH	0.41	2.69	15	1
1:C:94:THR:HG21	1:C:145:VAL:CG2	0.41	2.45	15	1
1:D:34:TYR:O	1:D:37:ARG:HG3	0.41	2.16	15	1
1:E:82:ASP:O	1:E:83:ILE:HB	0.41	2.15	15	1
1:F:104:ILE:CD1	1:F:141:LEU:CD2	0.41	2.99	15	1
1:A:124:LEU:CD2	1:A:128:TYR:CD1	0.41	3.04	1	1
1:C:41:PHE:CD1	1:C:71:ARG:HB3	0.41	2.51	1	1
1:C:62:THR:HG21	1:C:121:TYR:CA	0.41	2.46	1	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:F:103:ASN:HB3	1:F:187:LEU:O	0.41	2.16	1	1
1:B:39:SER:O	1:B:40:VAL:CG1	0.41	2.69	4	2
1:D:47:HIS:CE1	1:D:82:ASP:OD2	0.41	2.74	4	2
1:E:42:THR:OG1	1:E:70:PHE:CD1	0.41	2.74	2	1
1:E:61:ASP:HB2	1:E:81:TYR:CD2	0.41	2.51	2	1
1:F:41:PHE:HB2	1:F:71:ARG:CG	0.41	2.46	2	1
1:F:55:ILE:HG13	1:F:56:GLY:N	0.41	2.31	2	1
1:F:106:LEU:HD11	1:F:161:SER:OG	0.41	2.16	2	1
1:A:134:PRO:O	1:A:138:ASN:HB3	0.41	2.16	3	1
1:F:175:PHE:O	1:F:176:SER:O	0.41	2.38	3	1
1:C:103:ASN:OD1	1:C:103:ASN:N	0.41	2.53	5	1
1:C:62:THR:HA	1:C:117:LEU:HD12	0.41	1.92	6	1
1:C:48:ARG:NE	1:C:65:ALA:HA	0.41	2.31	9	1
1:D:180:ASP:OD1	1:D:180:ASP:N	0.41	2.54	9	1
1:E:177:LEU:O	1:E:178:ILE:CG2	0.41	2.69	9	1
1:A:47:HIS:HA	1:A:63:ILE:HD13	0.41	1.93	11	1
1:A:129:GLU:HG3	1:A:133:LEU:HD12	0.41	1.92	11	1
1:A:41:PHE:CD2	1:A:70:PHE:HA	0.41	2.50	12	1
1:B:50:ILE:O	1:B:70:PHE:CE1	0.41	2.74	12	1
1:B:98:ASP:OD2	1:B:98:ASP:N	0.41	2.53	12	1
1:E:133:LEU:N	1:E:134:PRO:HD2	0.41	2.31	12	1
1:F:88:ARG:NH1	1:F:133:LEU:CB	0.41	2.84	12	1
1:B:133:LEU:N	1:B:134:PRO:HD2	0.41	2.31	13	1
1:F:49:ALA:HA	1:F:50:ILE:HD12	0.41	1.92	13	1
1:D:41:PHE:CD2	1:D:71:ARG:HB3	0.41	2.50	14	1
1:D:50:ILE:CD1	1:D:80:ILE:HG23	0.41	2.46	14	1
1:F:131:ARG:O	1:F:135:SER:CB	0.41	2.69	14	1
1:A:52:PHE:CE2	1:A:77:TYR:HB2	0.41	2.51	15	1
1:E:154:ILE:CD1	1:E:189:PHE:CZ	0.41	3.04	15	1
1:B:52:PHE:CZ	1:B:55:ILE:O	0.40	2.74	1	1
1:E:61:ASP:OD1	1:E:81:TYR:CE2	0.40	2.73	1	1
1:E:61:ASP:OD1	1:E:81:TYR:CZ	0.40	2.74	1	1
1:F:41:PHE:CD2	1:F:71:ARG:HB3	0.40	2.51	10	3
1:A:48:ARG:CB	1:A:63:ILE:CA	0.40	2.96	2	1
1:C:45:GLY:O	1:C:65:ALA:O	0.40	2.39	2	1
1:C:124:LEU:CD1	1:C:175:PHE:CE1	0.40	3.04	2	1
1:E:61:ASP:HB2	1:E:81:TYR:CE2	0.40	2.52	2	1
1:F:48:ARG:HD2	1:F:64:LEU:O	0.40	2.16	2	1
1:A:52:PHE:CD1	1:A:77:TYR:HB3	0.40	2.50	3	1
1:D:125:GLY:O	1:D:126:LEU:CB	0.40	2.66	3	1
1:B:108:VAL:CG1	1:B:108:VAL:O	0.40	2.69	4	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:23:LEU:HD11	1:F:25:LEU:HD21	0.40	1.91	5	1
1:C:61:ASP:N	1:C:61:ASP:OD1	0.40	2.54	5	1
1:B:46:GLY:O	1:B:47:HIS:ND1	0.40	2.55	6	1
1:C:49:ALA:O	1:C:64:LEU:CB	0.40	2.68	6	1
1:E:41:PHE:CG	1:E:70:PHE:O	0.40	2.73	6	1
1:E:165:ARG:CG	1:E:182:VAL:CG1	0.40	2.98	6	1
1:B:66:GLU:CG	1:B:67:GLY:N	0.40	2.84	7	1
1:B:128:TYR:CG	1:B:129:GLU:N	0.40	2.89	7	1
1:D:35:GLY:HA2	1:E:34:TYR:CD1	0.40	2.51	7	1
1:D:52:PHE:CD2	1:D:57:GLY:O	0.40	2.73	7	3
1:E:63:ILE:CD1	1:E:112:PRO:CB	0.40	2.99	7	1
1:F:41:PHE:CD1	1:F:71:ARG:HB2	0.40	2.51	7	1
1:A:66:GLU:CG	1:F:57:GLY:HA3	0.40	2.46	9	1
1:F:165:ARG:HG2	1:F:182:VAL:HG21	0.40	1.87	9	1
1:C:41:PHE:CD1	1:C:78:PRO:HB3	0.40	2.51	10	1
1:C:63:ILE:HG13	1:C:117:LEU:HD22	0.40	1.93	10	1
1:D:50:ILE:HD11	1:D:80:ILE:CG1	0.40	2.47	11	1
1:A:52:PHE:CD2	1:A:77:TYR:HB2	0.40	2.51	12	1
1:E:189:PHE:CE1	1:F:187:LEU:HD22	0.40	2.51	12	1
1:C:115:GLN:CG	1:C:115:GLN:O	0.40	2.69	13	1
1:D:135:SER:O	1:D:139:GLU:CB	0.40	2.69	13	1
1:F:60:GLN:O	1:F:121:TYR:CE1	0.40	2.74	13	1
1:D:72:ILE:O	1:D:72:ILE:CG1	0.40	2.69	14	1
1:B:52:PHE:CZ	1:B:56:GLY:O	0.40	2.74	15	1
1:B:68:LEU:CG	1:B:68:LEU:O	0.40	2.69	15	1
1:D:55:ILE:O	1:D:55:ILE:CG2	0.40	2.68	15	1
1:F:61:ASP:O	1:F:62:THR:CG2	0.40	2.67	15	1
1:A:52:PHE:CD2	1:A:53:ASN:N	0.40	2.90	1	1
1:B:51:PHE:C	1:B:52:PHE:CG	0.40	2.91	2	1
1:B:153:LEU:HD23	1:B:153:LEU:C	0.40	2.37	2	1
1:C:172:ALA:O	1:C:175:PHE:CD2	0.40	2.74	2	1
1:D:156:GLN:O	1:D:157:ARG:HB2	0.40	2.16	2	1
1:E:61:ASP:CB	1:E:81:TYR:CD2	0.40	3.03	2	1
1:A:41:PHE:CD2	1:A:71:ARG:HB3	0.40	2.51	3	1
1:B:128:TYR:N	1:B:128:TYR:CD2	0.40	2.90	3	1
1:E:110:SER:CB	1:E:177:LEU:HD11	0.40	2.46	3	1
1:F:47:HIS:HB3	1:F:80:ILE:HD11	0.40	1.92	3	1
1:B:44:GLU:O	1:B:66:GLU:CA	0.40	2.69	4	1
1:C:189:PHE:CD2	1:C:189:PHE:N	0.40	2.88	4	1
1:C:34:TYR:CE2	1:D:34:TYR:OH	0.40	2.73	5	1
1:C:184:ILE:O	1:C:184:ILE:CG2	0.40	2.69	5	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:E:63:ILE:HD11	1:E:112:PRO:HG2	0.40	1.89	5	1
1:E:77:TYR:CD2	1:E:78:PRO:CD	0.40	3.05	6	1
1:A:150:ALA:HB1	1:A:154:ILE:HD11	0.40	1.93	7	1
1:F:43:VAL:O	1:F:43:VAL:CG1	0.40	2.70	7	1
1:F:154:ILE:HG22	1:F:188:SER:CB	0.40	2.45	7	1
1:A:179:LEU:O	1:A:179:LEU:CG	0.40	2.70	8	1
1:B:183:ALA:O	1:B:184:ILE:CG2	0.40	2.69	8	1
1:A:64:LEU:CD1	1:A:70:PHE:CE2	0.40	3.04	9	1
1:E:132:VAL:HG13	1:E:175:PHE:CD2	0.40	2.50	9	1
1:E:136:ILE:HG23	1:E:137:VAL:N	0.40	2.31	9	1
1:B:106:LEU:HG	1:B:164:ILE:HG21	0.40	1.92	10	1
1:A:62:THR:O	1:A:117:LEU:CB	0.40	2.69	11	1
1:A:104:ILE:HG22	1:A:141:LEU:HD12	0.40	1.88	11	1
1:B:109:LEU:CB	1:B:182:VAL:CG2	0.40	2.99	11	1
1:D:104:ILE:HG21	1:D:145:VAL:HG12	0.40	1.92	11	1
1:F:61:ASP:OD1	1:F:81:TYR:CE2	0.40	2.74	12	1
1:B:43:VAL:CA	1:B:65:ALA:HA	0.40	2.46	13	1
1:C:72:ILE:HG23	1:C:73:PRO:CD	0.40	2.46	13	1
1:E:110:SER:CB	1:E:177:LEU:CD2	0.40	3.00	13	1
1:C:47:HIS:CE1	1:C:82:ASP:OD2	0.40	2.75	15	1
1:C:105:SER:O	1:C:184:ILE:CD1	0.40	2.70	15	1
1:D:12:LEU:CB	1:D:13:PRO:HD3	0.40	2.46	15	1
1:D:177:LEU:O	1:D:177:LEU:HD23	0.40	2.17	15	1
1:F:64:LEU:O	1:F:65:ALA:CB	0.40	2.69	15	1
1:C:62:THR:HG21	1:C:121:TYR:CB	0.40	2.47	1	1
1:C:79:ILE:N	1:C:79:ILE:CD1	0.40	2.84	2	1
1:E:57:GLY:C	1:E:58:VAL:HG23	0.40	2.37	2	1
1:E:132:VAL:HG23	1:E:133:LEU:N	0.40	2.30	2	1
1:C:72:ILE:O	1:C:72:ILE:CG1	0.40	2.69	3	1
1:D:49:ALA:HA	1:D:50:ILE:HD12	0.40	1.93	3	1
1:D:71:ARG:CG	1:D:78:PRO:HG3	0.40	2.46	3	1
1:D:168:LEU:HD21	1:D:180:ASP:OD1	0.40	2.16	3	1
1:F:41:PHE:CZ	1:F:71:ARG:NH1	0.40	2.89	3	1
1:C:184:ILE:O	1:C:184:ILE:CG1	0.40	2.69	4	1
1:D:102:VAL:HG22	1:D:153:LEU:HD13	0.40	1.92	4	1
1:E:41:PHE:CB	1:E:71:ARG:HB3	0.40	2.46	4	1
1:B:142:LYS:O	1:B:145:VAL:HG12	0.40	2.16	5	1
1:B:141:LEU:O	1:B:145:VAL:HG22	0.40	2.16	6	1
1:F:52:PHE:CG	1:F:58:VAL:O	0.40	2.74	6	1
1:C:108:VAL:CG1	1:C:133:LEU:CD2	0.40	2.98	7	1
1:C:165:ARG:CB	1:C:182:VAL:HG11	0.40	2.47	7	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:F:115:GLN:O	1:F:115:GLN:CG	0.40	2.69	7	1
1:C:180:ASP:OD1	1:C:180:ASP:N	0.40	2.54	8	1
1:E:45:GLY:O	1:E:47:HIS:N	0.40	2.54	8	1
1:A:50:ILE:HD12	1:A:63:ILE:H	0.40	1.77	9	1
1:C:48:ARG:HG2	1:C:63:ILE:HD12	0.40	1.93	9	1
1:E:62:THR:HG22	1:E:117:LEU:HD12	0.40	1.92	9	1
1:A:51:PHE:CD2	1:A:51:PHE:O	0.40	2.75	10	1
1:C:41:PHE:CB	1:C:71:ARG:HB2	0.40	2.46	10	1
1:D:154:ILE:CD1	1:D:189:PHE:CE1	0.40	3.05	10	1
1:E:50:ILE:HG12	1:E:62:THR:OG1	0.40	2.17	10	1
1:C:126:LEU:O	1:C:126:LEU:CG	0.40	2.70	11	1
1:D:13:PRO:O	1:D:14:ALA:HB3	0.40	2.16	11	1
1:A:103:ASN:CB	1:A:188:SER:HA	0.40	2.46	12	1
1:E:41:PHE:CD1	1:E:71:ARG:HG2	0.40	2.52	13	1
1:B:107:ARG:CD	1:B:182:VAL:CG2	0.40	2.99	14	1
1:C:50:ILE:CG2	1:C:62:THR:CG2	0.40	2.98	14	1
1:E:59:GLN:HA	1:E:121:TYR:CE1	0.40	2.52	14	1
1:F:102:VAL:CG1	1:F:145:VAL:CG1	0.40	2.99	14	1
1:B:52:PHE:CE1	1:B:58:VAL:CG2	0.40	3.04	15	1
1:E:114:ALA:O	1:E:116:GLU:N	0.40	2.55	1	1
1:C:45:GLY:O	1:C:66:GLU:CG	0.40	2.70	2	1
1:C:62:THR:O	1:C:80:ILE:CA	0.40	2.68	2	1
1:D:97:LYS:CG	1:D:146:ALA:O	0.40	2.70	2	1
1:F:136:ILE:CG2	1:F:137:VAL:N	0.40	2.85	2	1
1:C:121:TYR:CE2	1:C:126:LEU:O	0.40	2.74	3	1
1:B:69:HIS:CD2	1:B:69:HIS:O	0.40	2.74	4	1
1:B:148:PHE:CE1	1:B:163:LEU:HD22	0.40	2.50	4	1
1:D:58:VAL:HG11	1:E:45:GLY:HA3	0.40	1.93	4	1
1:F:53:ASN:ND2	1:F:75:PHE:CD1	0.40	2.90	4	1
1:B:41:PHE:HB3	1:B:71:ARG:CA	0.40	2.46	5	1
1:F:141:LEU:O	1:F:145:VAL:HG12	0.40	2.17	5	1
1:A:77:TYR:CD1	1:A:78:PRO:CD	0.40	3.04	7	1
1:C:50:ILE:HD11	1:C:80:ILE:CG1	0.40	2.47	7	1
1:B:34:TYR:CE1	1:C:34:TYR:OH	0.40	2.70	8	1
1:B:42:THR:OG1	1:B:68:LEU:CD2	0.40	2.69	8	1
1:B:46:GLY:N	1:B:65:ALA:O	0.40	2.54	8	1
1:E:102:VAL:HG13	1:E:153:LEU:HG	0.40	1.93	8	1
1:A:68:LEU:HD23	1:F:54:ARG:CG	0.40	2.46	9	1
1:E:62:THR:H	1:E:81:TYR:HB2	0.40	1.76	9	1
1:A:50:ILE:HG12	1:A:117:LEU:CD1	0.40	2.46	11	1
1:A:73:PRO:O	1:A:74:TRP:CD2	0.40	2.74	11	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:62:THR:O	1:B:80:ILE:HG22	0.40	2.16	11	1
1:C:39:SER:O	1:C:40:VAL:CG1	0.40	2.68	11	1
1:B:58:VAL:CG2	1:B:121:TYR:OH	0.40	2.70	12	1
1:F:62:THR:OG1	1:F:63:ILE:N	0.40	2.54	12	1
1:B:121:TYR:CZ	1:B:126:LEU:HD13	0.40	2.50	13	1
1:F:59:GLN:CB	1:F:79:ILE:CG2	0.40	3.00	14	1
1:C:52:PHE:CD1	1:C:58:VAL:CA	0.40	3.05	15	1
1:C:97:LYS:CD	1:C:148:PHE:O	0.40	2.70	15	1
1:D:102:VAL:HG11	1:D:150:ALA:HB2	0.40	1.94	15	1
1:E:41:PHE:HB3	1:E:71:ARG:CG	0.40	2.47	15	1
1:F:34:TYR:C	1:F:34:TYR:CD1	0.40	2.95	15	1
1:B:78:PRO:O	1:B:79:ILE:HG12	0.40	2.17	1	1
1:B:59:GLN:OE1	1:B:121:TYR:CD2	0.40	2.74	2	1
1:B:77:TYR:CD2	1:B:78:PRO:HD2	0.40	2.52	3	1
1:E:48:ARG:HB3	1:E:63:ILE:CB	0.40	2.45	4	1
1:E:127:ASP:O	1:E:128:TYR:CG	0.40	2.74	4	1
1:B:62:THR:O	1:B:63:ILE:CB	0.40	2.69	5	1
1:C:51:PHE:CD1	1:C:51:PHE:O	0.40	2.75	5	1
1:D:114:ALA:HB3	1:D:177:LEU:O	0.40	2.17	6	1
1:E:50:ILE:HG12	1:E:62:THR:HG23	0.40	1.94	6	1
1:C:61:ASP:N	1:C:81:TYR:CD1	0.40	2.90	7	1
1:D:90:ILE:HD12	1:D:90:ILE:N	0.40	2.32	7	1
1:D:137:VAL:CG1	1:D:141:LEU:HD11	0.40	2.46	7	1
1:B:62:THR:HA	1:B:117:LEU:HD12	0.40	1.94	8	1
1:C:53:ASN:ND2	1:C:75:PHE:CE1	0.40	2.89	8	1
1:E:137:VAL:O	1:E:141:LEU:HB2	0.40	2.16	8	1
1:C:62:THR:HB	1:C:117:LEU:CB	0.40	2.46	9	1
1:D:68:LEU:O	1:D:68:LEU:CG	0.40	2.70	9	1
1:D:69:HIS:O	1:D:69:HIS:CD2	0.40	2.74	9	1
1:F:62:THR:HG22	1:F:117:LEU:HD12	0.40	1.93	9	1
1:F:177:LEU:O	1:F:178:ILE:HG23	0.40	2.16	9	1
1:D:112:PRO:O	1:D:114:ALA:N	0.40	2.53	10	1
1:F:57:GLY:O	1:F:59:GLN:N	0.40	2.54	10	1
1:A:102:VAL:HG21	1:A:153:LEU:HD22	0.40	1.94	11	1
1:B:106:LEU:C	1:B:184:ILE:HG21	0.40	2.37	11	1
1:D:119:SER:HB2	1:D:128:TYR:CD2	0.40	2.52	11	1
1:D:153:LEU:HD22	1:D:188:SER:H	0.40	1.77	11	1
1:B:106:LEU:O	1:B:137:VAL:CG2	0.40	2.70	12	1
1:B:117:LEU:O	1:B:121:TYR:N	0.40	2.54	12	1
1:C:61:ASP:N	1:C:81:TYR:CB	0.40	2.85	12	1
1:D:136:ILE:CG2	1:D:171:ARG:NE	0.40	2.84	12	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:F:54:ARG:O	1:F:55:ILE:HD13	0.40	2.17	12	1
1:F:90:ILE:CD1	1:F:137:VAL:HG22	0.40	2.39	12	1
1:F:120:MET:HE2	1:F:124:LEU:HD13	0.40	1.92	12	1
1:F:134:PRO:HA	1:F:137:VAL:CG1	0.40	2.47	12	1
1:F:137:VAL:HG13	1:F:138:ASN:N	0.40	2.30	12	1
1:B:41:PHE:CD1	1:B:41:PHE:O	0.40	2.74	14	1
1:B:68:LEU:O	1:B:68:LEU:CG	0.40	2.69	14	1
1:B:186:GLU:C	1:B:187:LEU:HD12	0.40	2.37	14	1
1:E:131:ARG:O	1:E:135:SER:CB	0.40	2.69	14	1
1:F:63:ILE:H	1:F:117:LEU:HD13	0.40	1.76	14	1
1:B:73:PRO:O	1:B:74:TRP:O	0.40	2.40	15	1
1:F:43:VAL:HA	1:F:64:LEU:CD2	0.40	2.47	15	1
1:F:44:GLU:N	1:F:65:ALA:HA	0.40	2.32	15	1
1:F:104:ILE:CD1	1:F:141:LEU:HD21	0.40	2.46	15	1

6.3 Torsion angles [i](#)

6.3.1 Protein backbone [i](#)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all NMR entries. The Analysed column shows the number of residues for which the backbone conformation was analysed and the total number of residues.

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	185/190 (97%)	149±5 (80±3%)	25±5 (14±3%)	11±3 (6±2%)	3	20
1	B	188/190 (99%)	147±3 (78±2%)	27±5 (15±2%)	14±3 (8±2%)	2	15
1	C	188/190 (99%)	148±4 (79±2%)	26±5 (14±3%)	14±2 (7±1%)	2	16
1	D	181/190 (95%)	146±6 (81±3%)	23±4 (13±2%)	11±4 (6±2%)	3	19
1	E	188/190 (99%)	148±6 (79±3%)	27±5 (15±3%)	13±2 (7±1%)	2	17
1	F	185/190 (97%)	146±5 (79±2%)	27±4 (15±2%)	12±3 (7±1%)	2	18
All	All	16725/17100 (98%)	13246 (79%)	2350 (14%)	1129 (7%)	2	17

All 281 unique Ramachandran outliers are listed below. They are sorted by the frequency of occurrence in the ensemble.

Mol	Chain	Res	Type	Models (Total)
1	B	78	PRO	15

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Mol	Chain	Res	Type	Models (Total)
1	B	87	PRO	15
1	C	78	PRO	15
1	E	78	PRO	15
1	A	78	PRO	14
1	A	87	PRO	14
1	D	78	PRO	14
1	D	87	PRO	14
1	E	87	PRO	14
1	F	78	PRO	14
1	C	87	PRO	13
1	A	73	PRO	12
1	D	93	PRO	12
1	E	93	PRO	12
1	F	93	PRO	11
1	B	63	ILE	11
1	B	65	ALA	11
1	B	66	GLU	11
1	C	73	PRO	10
1	C	93	PRO	10
1	E	40	VAL	10
1	B	43	VAL	10
1	B	64	LEU	10
1	B	70	PHE	10
1	B	118	PRO	10
1	F	63	ILE	10
1	B	93	PRO	9
1	B	96	SER	9
1	D	55	ILE	9
1	E	63	ILE	9
1	E	73	PRO	9
1	F	87	PRO	9
1	F	58	VAL	9
1	D	73	PRO	9
1	D	74	TRP	9
1	A	93	PRO	8
1	C	40	VAL	8
1	E	55	ILE	8
1	F	73	PRO	8
1	B	72	ILE	8
1	C	63	ILE	8
1	F	40	VAL	8
1	F	65	ALA	8

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Mol	Chain	Res	Type	Models (Total)
1	A	96	SER	7
1	E	65	ALA	7
1	E	176	SER	7
1	A	40	VAL	7
1	A	55	ILE	7
1	C	113	ASN	7
1	C	58	VAL	7
1	A	74	TRP	6
1	C	74	TRP	6
1	C	55	ILE	6
1	E	57	GLY	6
1	E	58	VAL	6
1	C	64	LEU	6
1	A	116	GLU	5
1	C	61	ASP	5
1	F	74	TRP	5
1	F	176	SER	5
1	A	63	ILE	5
1	B	54	ARG	5
1	B	55	ILE	5
1	C	65	ALA	5
1	D	54	ARG	5
1	D	58	VAL	5
1	F	64	LEU	5
1	A	57	GLY	5
1	C	84	ARG	5
1	C	96	SER	5
1	C	112	PRO	5
1	D	113	ASN	5
1	E	74	TRP	5
1	F	61	ASP	5
1	F	118	PRO	5
1	A	71	ARG	5
1	E	71	ARG	5
1	A	58	VAL	5
1	C	100	GLN	5
1	D	118	PRO	5
1	D	127	ASP	5
1	A	113	ASN	5
1	B	71	ARG	5
1	D	40	VAL	5
1	C	44	GLU	4

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Mol	Chain	Res	Type	Models (Total)
1	C	114	ALA	4
1	D	100	GLN	4
1	E	54	ARG	4
1	E	60	GLN	4
1	E	100	GLN	4
1	A	14	ALA	4
1	A	44	GLU	4
1	B	44	GLU	4
1	B	85	ALA	4
1	C	118	PRO	4
1	E	14	ALA	4
1	E	113	ASN	4
1	F	54	ARG	4
1	B	100	GLN	4
1	D	44	GLU	4
1	D	114	ALA	4
1	D	115	GLN	4
1	E	126	LEU	4
1	F	55	ILE	4
1	C	79	ILE	4
1	D	71	ARG	4
1	F	59	GLN	4
1	F	126	LEU	4
1	A	127	ASP	4
1	B	58	VAL	4
1	C	15	GLY	4
1	B	127	ASP	4
1	C	85	ALA	4
1	B	116	GLU	3
1	C	59	GLN	3
1	D	116	GLU	3
1	E	79	ILE	3
1	E	96	SER	3
1	E	115	GLN	3
1	F	16	PRO	3
1	F	127	ASP	3
1	A	126	LEU	3
1	B	14	ALA	3
1	B	15	GLY	3
1	C	66	GLU	3
1	C	70	PHE	3
1	D	2	ALA	3

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Mol	Chain	Res	Type	Models (Total)
1	E	2	ALA	3
1	F	85	ALA	3
1	F	97	LYS	3
1	A	65	ALA	3
1	A	85	ALA	3
1	B	40	VAL	3
1	B	59	GLN	3
1	B	115	GLN	3
1	C	126	LEU	3
1	C	128	TYR	3
1	D	72	ILE	3
1	D	85	ALA	3
1	E	72	ILE	3
1	E	99	LEU	3
1	E	127	ASP	3
1	F	44	GLU	3
1	F	62	THR	3
1	A	115	GLN	3
1	C	14	ALA	3
1	C	127	ASP	3
1	F	100	GLN	3
1	A	176	SER	3
1	C	176	SER	3
1	D	66	GLU	3
1	D	70	PHE	3
1	D	96	SER	3
1	C	43	VAL	3
1	D	126	LEU	3
1	A	118	PRO	3
1	B	148	PHE	3
1	E	112	PRO	3
1	A	128	TYR	3
1	C	72	ILE	3
1	E	46	GLY	3
1	E	59	GLN	3
1	F	128	TYR	3
1	A	70	PHE	3
1	B	114	ALA	3
1	B	128	TYR	3
1	D	84	ARG	3
1	C	54	ARG	3
1	A	54	ARG	2

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Mol	Chain	Res	Type	Models (Total)
1	C	116	GLU	2
1	F	113	ASN	2
1	F	114	ALA	2
1	C	56	GLY	2
1	C	71	ARG	2
1	D	176	SER	2
1	F	56	GLY	2
1	F	83	ILE	2
1	F	125	GLY	2
1	A	16	PRO	2
1	A	112	PRO	2
1	B	45	GLY	2
1	B	73	PRO	2
1	C	57	GLY	2
1	C	83	ILE	2
1	C	97	LYS	2
1	D	43	VAL	2
1	D	57	GLY	2
1	D	125	GLY	2
1	F	116	GLU	2
1	B	113	ASN	2
1	E	61	ASP	2
1	F	71	ARG	2
1	F	72	ILE	2
1	A	79	ILE	2
1	B	74	TRP	2
1	B	126	LEU	2
1	C	148	PHE	2
1	E	44	GLU	2
1	E	85	ALA	2
1	F	79	ILE	2
1	F	115	GLN	2
1	F	43	VAL	2
1	C	60	GLN	2
1	E	114	ALA	2
1	F	84	ARG	2
1	F	96	SER	2
1	A	64	LEU	2
1	A	72	ILE	2
1	B	60	GLN	2
1	B	2	ALA	2
1	E	116	GLU	2

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Mol	Chain	Res	Type	Models (Total)
1	E	148	PHE	2
1	A	83	ILE	2
1	A	98	ASP	2
1	F	66	GLU	2
1	F	70	PHE	2
1	A	148	PHE	1
1	B	149	ASN	1
1	B	156	GLN	1
1	C	98	ASP	1
1	A	56	GLY	1
1	A	100	GLN	1
1	B	83	ILE	1
1	B	99	LEU	1
1	D	156	GLN	1
1	F	60	GLN	1
1	F	148	PHE	1
1	A	84	ARG	1
1	A	149	ASN	1
1	A	156	GLN	1
1	C	75	PHE	1
1	E	97	LYS	1
1	F	98	ASP	1
1	F	156	GLN	1
1	D	45	GLY	1
1	E	62	THR	1
1	E	64	LEU	1
1	E	70	PHE	1
1	A	99	LEU	1
1	B	61	ASP	1
1	B	112	PRO	1
1	D	42	THR	1
1	D	46	GLY	1
1	E	128	TYR	1
1	C	42	THR	1
1	E	43	VAL	1
1	E	84	ARG	1
1	F	99	LEU	1
1	D	56	GLY	1
1	E	75	PHE	1
1	F	75	PHE	1
1	A	43	VAL	1
1	C	99	LEU	1

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Mol	Chain	Res	Type	Models (Total)
1	D	79	ILE	1
1	D	98	ASP	1
1	D	148	PHE	1
1	E	118	PRO	1
1	E	149	ASN	1
1	E	157	ARG	1
1	A	66	GLU	1
1	A	114	ALA	1
1	D	97	LYS	1
1	C	125	GLY	1
1	F	15	GLY	1
1	A	62	THR	1
1	D	13	PRO	1
1	D	83	ILE	1
1	D	121	TYR	1
1	D	122	GLN	1
1	F	2	ALA	1
1	B	176	SER	1
1	F	57	GLY	1
1	D	15	GLY	1
1	E	56	GLY	1
1	A	178	ILE	1
1	B	84	ARG	1
1	C	2	ALA	1
1	D	14	ALA	1
1	E	45	GLY	1
1	E	83	ILE	1
1	F	175	PHE	1

6.3.2 Protein sidechains [i](#)

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all NMR entries. The Analysed column shows the number of residues for which the sidechain conformation was analysed and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	156/160 (98%)	117±5 (75±3%)	39±5 (25±3%)	2	24
1	B	160/160 (100%)	122±5 (76±3%)	38±5 (24±3%)	2	26
1	C	160/160 (100%)	119±5 (74±3%)	41±5 (26±3%)	2	23
1	D	154/160 (96%)	116±4 (76±3%)	38±4 (24±3%)	2	26

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	E	160/160 (100%)	123±5 (77±3%)	37±5 (23±3%)	3	28
1	F	158/160 (99%)	118±5 (75±3%)	40±5 (25±3%)	2	25
All	All	14220/14400 (99%)	10719 (75%)	3501 (25%)	2	25

All 724 unique residues with a non-rotameric sidechain are listed below. They are sorted by the frequency of occurrence in the ensemble.

Mol	Chain	Res	Type	Models (Total)
1	A	24	LYS	14
1	E	37	ARG	13
1	E	63	ILE	13
1	C	12	LEU	13
1	E	88	ARG	13
1	A	12	LEU	12
1	B	86	ARG	12
1	C	37	ARG	12
1	C	84	ARG	12
1	C	86	ARG	12
1	C	88	ARG	12
1	D	24	LYS	12
1	F	63	ILE	12
1	B	50	ILE	12
1	A	84	ARG	11
1	A	88	ARG	11
1	A	157	ARG	11
1	B	12	LEU	11
1	C	11	ARG	11
1	C	24	LYS	11
1	C	62	THR	11
1	C	89	LYS	11
1	C	121	TYR	11
1	D	12	LEU	11
1	D	153	LEU	11
1	E	12	LEU	11
1	E	24	LYS	11
1	F	37	ARG	11
1	F	148	PHE	11
1	A	89	LYS	11
1	B	71	ARG	11
1	A	37	ARG	10
1	A	62	THR	10

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Mol	Chain	Res	Type	Models (Total)
1	A	66	GLU	10
1	A	97	LYS	10
1	A	156	GLN	10
1	B	24	LYS	10
1	B	131	ARG	10
1	C	97	LYS	10
1	D	148	PHE	10
1	E	62	THR	10
1	E	71	ARG	10
1	E	147	LYS	10
1	E	165	ARG	10
1	F	24	LYS	10
1	F	77	TYR	10
1	F	84	ARG	10
1	B	43	VAL	10
1	C	153	LEU	10
1	D	88	ARG	10
1	D	162	LEU	10
1	D	165	ARG	10
1	F	166	ARG	10
1	B	80	ILE	10
1	A	77	TYR	9
1	A	101	MET	9
1	A	163	LEU	9
1	B	60	GLN	9
1	B	96	SER	9
1	B	109	LEU	9
1	B	147	LYS	9
1	B	171	ARG	9
1	C	76	GLN	9
1	C	120	MET	9
1	D	6	LYS	9
1	D	37	ARG	9
1	D	157	ARG	9
1	D	179	LEU	9
1	E	111	ARG	9
1	E	117	LEU	9
1	E	131	ARG	9
1	E	151	SER	9
1	E	153	LEU	9
1	E	179	LEU	9
1	F	3	GLN	9

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Mol	Chain	Res	Type	Models (Total)
1	F	59	GLN	9
1	A	179	LEU	9
1	A	187	LEU	9
1	C	171	ARG	9
1	D	54	ARG	9
1	D	86	ARG	9
1	F	106	LEU	9
1	F	117	LEU	9
1	F	153	LEU	9
1	B	97	LYS	9
1	B	99	LEU	9
1	B	153	LEU	9
1	C	177	LEU	9
1	C	68	LEU	9
1	D	84	ARG	9
1	E	99	LEU	9
1	E	166	ARG	9
1	F	71	ARG	9
1	A	50	ILE	8
1	A	74	TRP	8
1	A	131	ARG	8
1	A	153	LEU	8
1	A	189	PHE	8
1	B	70	PHE	8
1	B	88	ARG	8
1	B	157	ARG	8
1	B	165	ARG	8
1	C	48	ARG	8
1	C	50	ILE	8
1	C	63	ILE	8
1	C	71	ARG	8
1	C	128	TYR	8
1	C	157	ARG	8
1	C	163	LEU	8
1	C	166	ARG	8
1	D	70	PHE	8
1	D	71	ARG	8
1	D	97	LYS	8
1	E	76	GLN	8
1	E	77	TYR	8
1	E	148	PHE	8
1	E	156	GLN	8

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Mol	Chain	Res	Type	Models (Total)
1	E	171	ARG	8
1	F	48	ARG	8
1	F	89	LYS	8
1	F	120	MET	8
1	F	152	GLN	8
1	F	171	ARG	8
1	A	63	ILE	8
1	B	84	ARG	8
1	B	89	LYS	8
1	C	77	TYR	8
1	C	165	ARG	8
1	D	50	ILE	8
1	D	120	MET	8
1	D	123	ARG	8
1	D	152	GLN	8
1	E	54	ARG	8
1	E	86	ARG	8
1	F	97	LYS	8
1	F	162	LEU	8
1	A	99	LEU	8
1	C	107	ARG	8
1	D	76	GLN	8
1	F	168	LEU	8
1	A	147	LYS	8
1	B	37	ARG	8
1	A	8	LEU	7
1	A	23	LEU	7
1	A	69	HIS	7
1	A	71	ARG	7
1	A	142	LYS	7
1	A	186	GLU	7
1	B	5	LEU	7
1	B	25	LEU	7
1	B	76	GLN	7
1	B	106	LEU	7
1	B	117	LEU	7
1	B	119	SER	7
1	B	121	TYR	7
1	C	69	HIS	7
1	C	74	TRP	7
1	C	126	LEU	7
1	C	131	ARG	7

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Mol	Chain	Res	Type	Models (Total)
1	C	179	LEU	7
1	D	66	GLU	7
1	D	109	LEU	7
1	D	161	SER	7
1	D	163	LEU	7
1	E	84	ARG	7
1	F	50	ILE	7
1	F	75	PHE	7
1	F	86	ARG	7
1	F	88	ARG	7
1	F	107	ARG	7
1	F	109	LEU	7
1	F	111	ARG	7
1	F	126	LEU	7
1	F	163	LEU	7
1	A	6	LYS	7
1	A	107	ARG	7
1	A	151	SER	7
1	A	165	ARG	7
1	A	171	ARG	7
1	A	177	LEU	7
1	B	11	ARG	7
1	B	111	ARG	7
1	B	179	LEU	7
1	C	60	GLN	7
1	C	115	GLN	7
1	D	3	GLN	7
1	D	25	LEU	7
1	D	111	ARG	7
1	D	117	LEU	7
1	D	156	GLN	7
1	E	66	GLU	7
1	E	187	LEU	7
1	F	25	LEU	7
1	F	62	THR	7
1	F	96	SER	7
1	F	100	GLN	7
1	A	148	PHE	7
1	A	162	LEU	7
1	B	6	LYS	7
1	B	8	LEU	7
1	C	25	LEU	7

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Mol	Chain	Res	Type	Models (Total)
1	C	109	LEU	7
1	C	142	LYS	7
1	C	156	GLN	7
1	F	131	ARG	7
1	B	151	SER	7
1	B	163	LEU	7
1	D	121	TYR	7
1	E	61	ASP	7
1	E	107	ARG	7
1	A	86	ARG	6
1	A	122	GLN	6
1	A	123	ARG	6
1	A	126	LEU	6
1	B	74	TRP	6
1	B	101	MET	6
1	B	105	SER	6
1	C	96	SER	6
1	C	98	ASP	6
1	C	147	LYS	6
1	D	74	TRP	6
1	D	159	GLN	6
1	D	187	LEU	6
1	E	68	LEU	6
1	E	89	LYS	6
1	E	123	ARG	6
1	E	168	LEU	6
1	F	11	ARG	6
1	F	101	MET	6
1	F	121	TYR	6
1	F	123	ARG	6
1	F	130	GLU	6
1	F	157	ARG	6
1	F	179	LEU	6
1	F	190	SER	6
1	A	54	ARG	6
1	A	68	LEU	6
1	B	168	LEU	6
1	C	8	LEU	6
1	C	59	GLN	6
1	D	48	ARG	6
1	D	107	ARG	6
1	D	126	LEU	6

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Mol	Chain	Res	Type	Models (Total)
1	D	131	ARG	6
1	D	171	ARG	6
1	E	6	LYS	6
1	E	97	LYS	6
1	F	54	ARG	6
1	F	60	GLN	6
1	F	103	ASN	6
1	F	159	GLN	6
1	A	5	LEU	6
1	A	11	ARG	6
1	B	116	GLU	6
1	B	148	PHE	6
1	C	52	PHE	6
1	C	117	LEU	6
1	D	89	LYS	6
1	D	147	LYS	6
1	D	177	LEU	6
1	D	186	GLU	6
1	E	173	LYS	6
1	E	177	LEU	6
1	F	6	LYS	6
1	F	165	ARG	6
1	A	92	SER	6
1	E	142	LYS	6
1	A	159	GLN	6
1	A	181	ASP	6
1	B	48	ARG	6
1	B	92	SER	6
1	B	107	ARG	6
1	F	156	GLN	6
1	F	170	GLU	6
1	E	11	ARG	6
1	D	77	TYR	6
1	A	52	PHE	5
1	A	119	SER	5
1	A	127	ASP	5
1	A	190	SER	5
1	B	159	GLN	5
1	B	166	ARG	5
1	B	177	LEU	5
1	C	44	GLU	5
1	C	110	SER	5

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Mol	Chain	Res	Type	Models (Total)
1	C	151	SER	5
1	C	189	PHE	5
1	D	92	SER	5
1	D	103	ASN	5
1	D	106	LEU	5
1	D	122	GLN	5
1	D	130	GLU	5
1	D	143	SER	5
1	D	151	SER	5
1	D	168	LEU	5
1	E	5	LEU	5
1	E	122	GLN	5
1	E	126	LEU	5
1	E	159	GLN	5
1	E	161	SER	5
1	E	162	LEU	5
1	F	5	LEU	5
1	F	52	PHE	5
1	F	151	SER	5
1	F	161	SER	5
1	A	70	PHE	5
1	A	128	TYR	5
1	A	188	SER	5
1	B	3	GLN	5
1	B	52	PHE	5
1	B	162	LEU	5
1	B	189	PHE	5
1	C	6	LYS	5
1	C	111	ARG	5
1	C	122	GLN	5
1	C	123	ARG	5
1	C	130	GLU	5
1	C	159	GLN	5
1	C	168	LEU	5
1	C	187	LEU	5
1	D	142	LYS	5
1	E	70	PHE	5
1	E	91	SER	5
1	F	142	LYS	5
1	B	100	GLN	5
1	D	5	LEU	5
1	D	166	ARG	5

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Mol	Chain	Res	Type	Models (Total)
1	F	99	LEU	5
1	F	177	LEU	5
1	A	109	LEU	5
1	B	115	GLN	5
1	B	187	LEU	5
1	E	50	ILE	5
1	F	68	LEU	5
1	F	70	PHE	5
1	F	189	PHE	5
1	A	168	LEU	5
1	C	186	GLU	5
1	E	1	MET	5
1	E	105	SER	5
1	E	152	GLN	5
1	B	129	GLU	5
1	B	130	GLU	5
1	C	5	LEU	5
1	D	1	MET	5
1	A	91	SER	4
1	A	98	ASP	4
1	A	141	LEU	4
1	A	176	SER	4
1	B	63	ILE	4
1	B	68	LEU	4
1	B	120	MET	4
1	B	142	LYS	4
1	B	149	ASN	4
1	C	1	MET	4
1	C	70	PHE	4
1	C	113	ASN	4
1	C	148	PHE	4
1	C	161	SER	4
1	C	162	LEU	4
1	C	173	LYS	4
1	D	113	ASN	4
1	D	119	SER	4
1	D	128	TYR	4
1	D	173	LYS	4
1	D	189	PHE	4
1	E	100	GLN	4
1	E	176	SER	4
1	F	8	LEU	4

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Mol	Chain	Res	Type	Models (Total)
1	F	74	TRP	4
1	F	76	GLN	4
1	F	116	GLU	4
1	A	120	MET	4
1	B	127	ASP	4
1	B	173	LYS	4
1	C	54	ARG	4
1	C	66	GLU	4
1	C	79	ILE	4
1	C	99	LEU	4
1	C	100	GLN	4
1	D	91	SER	4
1	D	104	ILE	4
1	D	105	SER	4
1	E	59	GLN	4
1	E	101	MET	4
1	E	163	LEU	4
1	F	66	GLU	4
1	F	69	HIS	4
1	F	115	GLN	4
1	A	7	ASP	4
1	A	100	GLN	4
1	A	111	ARG	4
1	A	117	LEU	4
1	A	161	SER	4
1	B	61	ASP	4
1	B	176	SER	4
1	C	75	PHE	4
1	C	92	SER	4
1	C	106	LEU	4
1	D	11	ARG	4
1	D	110	SER	4
1	D	133	LEU	4
1	E	103	ASN	4
1	E	109	LEU	4
1	F	92	SER	4
1	F	135	SER	4
1	F	176	SER	4
1	A	76	GLN	4
1	A	130	GLU	4
1	B	69	HIS	4
1	B	122	GLN	4

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Mol	Chain	Res	Type	Models (Total)
1	B	184	ILE	4
1	C	23	LEU	4
1	D	39	SER	4
1	D	44	GLU	4
1	E	98	ASP	4
1	E	186	GLU	4
1	F	1	MET	4
1	F	167	GLU	4
1	F	186	GLU	4
1	A	166	ARG	4
1	B	77	TYR	4
1	B	167	GLU	4
1	C	170	GLU	4
1	D	124	LEU	4
1	F	98	ASP	4
1	F	174	ASP	4
1	A	113	ASN	4
1	B	82	ASP	4
1	C	3	GLN	4
1	C	80	ILE	4
1	C	124	LEU	4
1	E	25	LEU	4
1	F	181	ASP	4
1	D	101	MET	4
1	D	190	SER	4
1	E	19	MET	4
1	E	157	ARG	4
1	D	99	LEU	4
1	A	173	LYS	4
1	C	188	SER	4
1	E	60	GLN	4
1	E	170	GLU	4
1	A	3	GLN	3
1	A	19	MET	3
1	A	116	GLU	3
1	B	59	GLN	3
1	B	103	ASN	3
1	B	113	ASN	3
1	B	133	LEU	3
1	B	175	PHE	3
1	C	72	ILE	3
1	C	91	SER	3

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Mol	Chain	Res	Type	Models (Total)
1	C	101	MET	3
1	C	190	SER	3
1	D	116	GLU	3
1	D	127	ASP	3
1	D	170	GLU	3
1	E	74	TRP	3
1	E	120	MET	3
1	E	124	LEU	3
1	E	184	ILE	3
1	E	189	PHE	3
1	F	61	ASP	3
1	F	187	LEU	3
1	A	48	ARG	3
1	B	54	ARG	3
1	C	41	PHE	3
1	D	8	LEU	3
1	D	23	LEU	3
1	E	113	ASN	3
1	E	116	GLU	3
1	E	121	TYR	3
1	E	139	GLU	3
1	F	38	GLU	3
1	F	91	SER	3
1	F	122	GLN	3
1	F	128	TYR	3
1	F	141	LEU	3
1	A	4	ASN	3
1	A	25	LEU	3
1	A	106	LEU	3
1	A	184	ILE	3
1	B	124	LEU	3
1	B	126	LEU	3
1	B	143	SER	3
1	B	190	SER	3
1	C	42	THR	3
1	C	64	LEU	3
1	C	139	GLU	3
1	D	75	PHE	3
1	D	176	SER	3
1	E	7	ASP	3
1	E	48	ARG	3
1	F	7	ASP	3

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Mol	Chain	Res	Type	Models (Total)
1	F	80	ILE	3
1	F	105	SER	3
1	F	133	LEU	3
1	F	184	ILE	3
1	A	133	LEU	3
1	A	167	GLU	3
1	C	4	ASN	3
1	C	129	GLU	3
1	D	69	HIS	3
1	E	4	ASN	3
1	E	27	LEU	3
1	E	130	GLU	3
1	F	23	LEU	3
1	F	147	LYS	3
1	B	1	MET	3
1	D	96	SER	3
1	E	115	GLN	3
1	E	133	LEU	3
1	F	72	ILE	3
1	F	124	LEU	3
1	F	127	ASP	3
1	A	121	TYR	3
1	D	7	ASP	3
1	D	68	LEU	3
1	E	8	LEU	3
1	E	129	GLU	3
1	F	113	ASN	3
1	A	110	SER	3
1	B	81	TYR	3
1	D	115	GLN	3
1	E	75	PHE	3
1	E	128	TYR	3
1	E	181	ASP	3
1	A	44	GLU	3
1	A	96	SER	3
1	C	58	VAL	3
1	E	79	ILE	3
1	E	96	SER	3
1	F	26	LEU	3
1	D	181	ASP	3
1	F	79	ILE	3
1	B	128	TYR	3

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Mol	Chain	Res	Type	Models (Total)
1	A	41	PHE	2
1	A	42	THR	2
1	A	105	SER	2
1	A	170	GLU	2
1	B	19	MET	2
1	B	23	LEU	2
1	C	39	SER	2
1	D	169	THR	2
1	D	174	ASP	2
1	E	94	THR	2
1	E	110	SER	2
1	F	180	ASP	2
1	B	26	LEU	2
1	B	123	ARG	2
1	B	180	ASP	2
1	C	103	ASN	2
1	D	180	ASP	2
1	E	38	GLU	2
1	E	72	ILE	2
1	E	104	ILE	2
1	E	141	LEU	2
1	F	173	LYS	2
1	A	115	GLN	2
1	A	129	GLU	2
1	A	149	ASN	2
1	B	139	GLU	2
1	D	129	GLU	2
1	A	124	LEU	2
1	A	138	ASN	2
1	A	174	ASP	2
1	C	105	SER	2
1	E	69	HIS	2
1	E	138	ASN	2
1	E	154	ILE	2
1	F	19	MET	2
1	F	64	LEU	2
1	B	110	SER	2
1	B	170	GLU	2
1	B	188	SER	2
1	C	127	ASP	2
1	C	138	ASN	2
1	D	81	TYR	2

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Mol	Chain	Res	Type	Models (Total)
1	D	82	ASP	2
1	E	39	SER	2
1	E	119	SER	2
1	E	188	SER	2
1	A	38	GLU	2
1	A	143	SER	2
1	B	38	GLU	2
1	C	133	LEU	2
1	D	80	ILE	2
1	D	98	ASP	2
1	E	17	ARG	2
1	F	4	ASN	2
1	F	42	THR	2
1	F	139	GLU	2
1	B	44	GLU	2
1	B	75	PHE	2
1	B	98	ASP	2
1	B	174	ASP	2
1	C	174	ASP	2
1	D	4	ASN	2
1	D	19	MET	2
1	A	72	ILE	2
1	B	4	ASN	2
1	B	66	GLU	2
1	B	156	GLN	2
1	C	119	SER	2
1	D	100	GLN	2
1	D	175	PHE	2
1	D	188	SER	2
1	E	3	GLN	2
1	E	23	LEU	2
1	F	138	ASN	2
1	C	61	ASP	2
1	C	135	SER	2
1	C	152	GLN	2
1	E	64	LEU	2
1	A	103	ASN	2
1	B	152	GLN	2
1	C	43	VAL	2
1	C	82	ASP	2
1	C	116	GLU	2
1	C	167	GLU	2

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Mol	Chain	Res	Type	Models (Total)
1	A	83	ILE	2
1	C	83	ILE	2
1	A	79	ILE	2
1	B	7	ASP	2
1	F	39	SER	2
1	A	39	SER	1
1	B	64	LEU	1
1	C	55	ILE	1
1	D	26	LEU	1
1	D	79	ILE	1
1	D	154	ILE	1
1	F	129	GLU	1
1	A	27	LEU	1
1	A	155	THR	1
1	A	185	THR	1
1	C	26	LEU	1
1	C	169	THR	1
1	D	38	GLU	1
1	D	155	THR	1
1	D	184	ILE	1
1	E	82	ASP	1
1	E	155	THR	1
1	E	175	PHE	1
1	F	82	ASP	1
1	A	53	ASN	1
1	A	90	ILE	1
1	A	136	ILE	1
1	A	175	PHE	1
1	C	38	GLU	1
1	C	149	ASN	1
1	D	55	ILE	1
1	D	58	VAL	1
1	E	26	LEU	1
1	E	106	LEU	1
1	E	167	GLU	1
1	F	143	SER	1
1	F	188	SER	1
1	A	64	LEU	1
1	A	80	ILE	1
1	B	138	ASN	1
1	C	141	LEU	1
1	E	174	ASP	1

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Mol	Chain	Res	Type	Models (Total)
1	F	44	GLU	1
1	F	175	PHE	1
1	A	58	VAL	1
1	A	164	ILE	1
1	B	62	THR	1
1	B	161	SER	1
1	D	21	THR	1
1	D	139	GLU	1
1	E	190	SER	1
1	F	27	LEU	1
1	A	152	GLN	1
1	B	91	SER	1
1	C	176	SER	1
1	D	17	ARG	1
1	D	164	ILE	1
1	F	169	THR	1
1	B	27	LEU	1
1	C	154	ILE	1
1	D	72	ILE	1
1	D	167	GLU	1
1	F	41	PHE	1
1	A	139	GLU	1
1	C	40	VAL	1
1	C	164	ILE	1
1	E	44	GLU	1
1	B	181	ASP	1
1	B	186	GLU	1
1	C	81	TYR	1
1	D	27	LEU	1
1	F	110	SER	1
1	B	39	SER	1
1	B	94	THR	1
1	C	104	ILE	1
1	C	180	ASP	1
1	D	135	SER	1
1	D	137	VAL	1
1	F	185	THR	1
1	A	104	ILE	1
1	B	47	HIS	1
1	B	178	ILE	1
1	C	143	SER	1
1	D	52	PHE	1

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Mol	Chain	Res	Type	Models (Total)
1	D	185	THR	1
1	E	80	ILE	1
1	E	90	ILE	1
1	B	79	ILE	1
1	B	141	LEU	1
1	D	41	PHE	1
1	D	138	ASN	1
1	D	141	LEU	1
1	A	17	ARG	1
1	E	136	ILE	1
1	F	94	THR	1
1	F	104	ILE	1
1	A	154	ILE	1
1	A	180	ASP	1
1	E	41	PHE	1
1	E	52	PHE	1
1	E	180	ASP	1
1	F	17	ARG	1
1	F	43	VAL	1

6.3.3 RNA [i](#)

There are no RNA molecules in this entry.

6.4 Non-standard residues in protein, DNA, RNA chains [i](#)

There are no non-standard protein/DNA/RNA residues in this entry.

6.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

6.6 Ligand geometry [i](#)

There are no ligands in this entry.

6.7 Other polymers [i](#)

There are no such molecules in this entry.

6.8 Polymer linkage issues

There are no chain breaks in this entry.

7 Chemical shift validation

The completeness of assignment taking into account all chemical shift lists is 10% for the well-defined parts and 10% for the entire structure.

7.1 Chemical shift list 1

File name: working_cs.cif

Chemical shift list name: *assigned_chem_shift_list*

7.1.1 Bookkeeping

The following table shows the results of parsing the chemical shift list and reports the number of nuclei with statistically unusual chemical shifts.

Total number of shifts	1688
Number of shifts mapped to atoms	1688
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	0

7.1.2 Chemical shift referencing

The following table shows the suggested chemical shift referencing corrections.

Nucleus	# values	Correction \pm precision, ppm	Suggested action
$^{13}\text{C}_\alpha$	183	0.27 ± 0.17	None needed (< 0.5 ppm)
$^{13}\text{C}_\beta$	169	0.76 ± 0.06	Should be checked
$^{13}\text{C}'$	183	-0.14 ± 0.12	None needed (< 0.5 ppm)
^{15}N	177	0.41 ± 0.14	None needed (< 0.5 ppm)

7.1.3 Completeness of resonance assignments

The following table shows the completeness of the chemical shift assignments for the well-defined regions of the structure. The overall completeness is 10%, i.e. 1665 atoms were assigned a chemical shift out of a possible 15946. 0 out of 226 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^1H	^{13}C	^{15}N
Backbone	890/5608 (16%)	356/2283 (16%)	360/2252 (16%)	174/1073 (16%)
Sidechain	773/9432 (8%)	507/6168 (8%)	266/2824 (9%)	0/440 (0%)

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	Total	¹ H	¹³ C	¹⁵ N
Aromatic	2/906 (0%)	2/444 (0%)	0/444 (0%)	0/18 (0%)
Overall	1665/15946 (10%)	865/8895 (10%)	626/5520 (11%)	174/1531 (11%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 10%, i.e. 1688 atoms were assigned a chemical shift out of a possible 16134. 0 out of 228 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹ H	¹³ C	¹⁵ N
Backbone	905/5676 (16%)	362/2310 (16%)	366/2280 (16%)	177/1086 (16%)
Sidechain	781/9552 (8%)	512/6246 (8%)	269/2862 (9%)	0/444 (0%)
Aromatic	2/906 (0%)	2/444 (0%)	0/444 (0%)	0/18 (0%)
Overall	1688/16134 (10%)	876/9000 (10%)	635/5586 (11%)	177/1548 (11%)

7.1.4 Statistically unusual chemical shifts [i](#)

There are no statistically unusual chemical shifts.

7.1.5 Random Coil Index (RCI) plots [i](#)

The image below reports *random coil index* values for the protein chains in the structure. The height of each bar gives a probability of a given residue to be disordered, as predicted from the available chemical shifts and the amino acid sequence. A value above 0.2 is an indication of significant predicted disorder. The colour of the bar shows whether the residue is in the well-defined core (black) or in the ill-defined residue ranges (cyan), as described in section 2 on ensemble composition. If well-defined core and ill-defined regions are not identified then it is shown as gray bars.

Random coil index (RCI) for chain A:

